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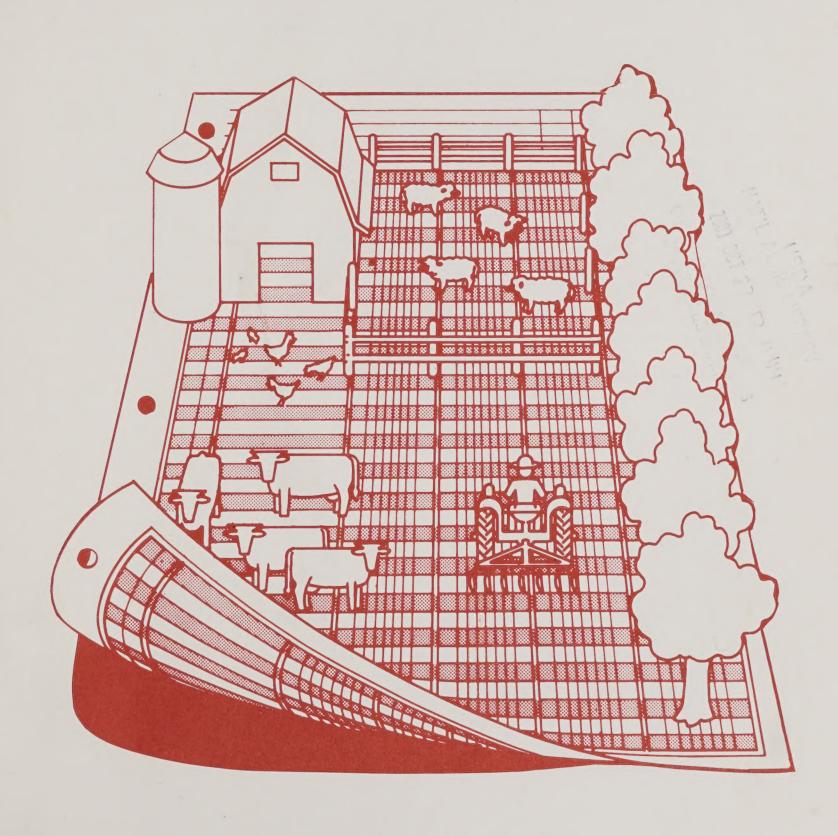
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Economic Research Service

ECIFS 12-3

Economic Indicators of the Farm Sector

Costs of Production-Major Field Crops & Livestock and Dairy, 1992



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Abstract

Average U.S. economic costs of producing corn, grain sorghum, oats, wheat, soybeans, rice, and cow-calf livestock increased in 1992 but declined for peanuts and cotton. Barley and dairy total economic costs changed little. Variable cash expenses were relatively stable for most crops in 1992 with the exception of peanuts and rice as seed, fertilizer, and energy costs showed a downward trend.

Keywords: Costs of production, enterprise costs and returns.

Preface

This report is one of four in the annual Economic Indicators of the Farm Sector series. Others are: National Financial Summary, State Financial Summary, and Production and Efficiency Statistics.

This year's *Costs of Production* contains new production practice and expenditure data from the barley, rice, and hog versions of the 1992 Farm Costs and Returns Survey (FCRS). A new barley region is added to accommodate the new data. Estimates for 1990 through 1992 for cow-calf, and for 1989 through 1992 for milk production, were revised to make the methodology consistent with that used for field crops. Cost-of-production estimates which include the direct effects of government program participation are reported for corn, grain sorghum, and rice. Cost-of-production estimates for sugar beets and sugarcane (which are published in the June issues of *Sugar and Sweetener Situation and Outlook Report*), and fed cattle (which are reported in *Livestock and Poultry Situation and Outlook Report*), are not reprinted in this publication. Wheat cost-of-production estimates for years prior to 1989 are located in the appendix tables 1A-9A along with a map delineating the old wheat production regions. Cow-calf cost-of-production estimates for years prior to 1990 are also located in the appendix tables 10A-14A.

This publication is prepared by the staff of the Farm Costs and Returns Section, Farm Sector Financial Analysis Branch, Economic Research Service. For more information contact:

Economic Research Service. For More Interest and Interest	210 0100
Economics editorMitch Morehart	2) 219-0100
Data coordinator Agnes Prentice	. 501-8510
Corn, soybeans and hogsBill McBride	. 501-8309
Com, soybeans and nogs-bin Mediate	219-0384
Grain sorghum and peanutsNora Brooks	210.0501
Oats and cow-calfJohn Jinkins	. 219-0798
Oats and cow-can some smaller	219-0374
BarleyMir Ali	501 9212
Wheet Judith Sommer	301-6313
RiceMike Salassi	501-8312
RiceMike Salassi	501-8307
CottonDargan Glaze	. 501-0507
Dairy-Mitch Morehart	219-0100
Dailywhich working	501-6140
Managing editorDouglas Martinez	, , 501 0110

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August 1994

Highlights

Average U.S. economic costs of producing corn, grain sorghum, oats, wheat, soybeans, rice, and cow-calf livestock increased in 1992, while economic costs declined for peanuts and cotton. Barley and dairy total economic costs changed little. Variable cash expenses were relatively stable for most crops in 1992 with the exception of peanuts and rice as seed, fertilizer, and energy costs showed a downward trend.

CORN. Total economic costs per acre among U.S. corn growers were up by about 3 percent in 1992, but record-high yields caused per-bushel costs to decline by 15 percent. Despite lower corn prices, higher yields increased the gross value of corn production by nearly 8 percent. Returns to management and risk were much improved in the Northeast, Southeast, and North Central regions. Government program participation enhanced returns to corn production to a much greater extent in 1992 than in 1991. Deficiency payments were more than 70 percent higher in 1992 because of lower corn prices. Government programs improved returns to management and risk in 1992 from -\$28.00 to \$5.84 among U.S. corn growers. North Central and Plains corn growers experienced the greatest impacts of program effects due to much higher levels of producer participation than in the Southeast and Northeast.

<u>GRAIN SORGHUM</u>. The per-bushel price of grain sorghum dropped by 20 percent in the Central Plains while per-acre yields rose by 37 percent. In the Southern Plains, the per-bushel price of sorghum fell by 14 percent and per-acre yields rose by only 10 percent. Variable cash expenses were only slightly higher in 1992 than in 1991 while fixed cash expenses rose by 13 percent in the Central Plains and 19 percent in the Southern Plains.

OATS. U.S. average yields were higher in 1992 than in any of the previous 10 years. In the Northeast, yields increased 57 percent compared to 1991 levels. Variable cash expenses showed little change in all regions. General farm overhead, taxes and insurance, and interest attributable to oat enterprises increased because the oat share of total value of farm commodity production increased.

BARLEY. The 1992 estimates are based on new production practices and expenditure data from the barley version of the 1992 Farm Costs and Returns Survey (FCRS). Average yield for States included in the FCRS survey increased by 13 percent to 58 bushels per planted acre and the harvest-month price rose to \$2.16 per bushel, resulting in a 19-percent increase in the per-acre gross value of production of barley. Total cash expenses rose \$6 to reach \$90 per acre in 1992, while total economic costs remained stable at \$162 per acre. Returns to management and risk improved from minus \$51 to minus \$31. Production costs and returns per planted acre varied greatly among regions. Total production costs ranged from \$140 in the Northern Plains to \$234 in the Northwest. The Northwest had the highest production costs because of irrigation-related expenses. The gross value of production of barley ranged from \$113 per acre in the Northern Plains to \$197 per acre in the Northeast. The value of barley straw also contributed to an increase in the gross value of barley crop in the Northeast. The Northeast region's return to management and risk was the most favorable among the barley regions.

WHEAT. The per-acre total economic cost of producing wheat increased 12 percent on average in the U.S. in 1992, with regional increases ranging from 8 percent in the Southeast to 20 percent in the Pacific. Much of the increase is attributable to the increase in net land rent which reflects the higher cash and share rental value of cropland. Per acre variable and fixed cash expenses stayed relatively flat compared to 1991. However, cost increases were more than offset by the rebound in U.S. wheat prices and yields (29 percent and 19 percent respectively) that caused the average per acre gross value of production of U.S. wheat to jump 54 percent. Average harvest-month price increases for wheat ranged from 20 percent in the Pacific Region to 34 percent in the Northern Plains, while yield increases ranged from 9 percent in the Southern Plains to 73 percent in the Southeast.

SOYBEANS. Total economic costs per acre were about 3 percent higher for U.S. soybean growers in 1992, but record-high yields caused a 6 percent decline in per-bushel costs. Lower soybean prices were offset by greater yields as the value of soybean production rose 5 percent. Returns to management and risk were up in nearly all production regions with the greatest improvement among growers in the Delta. Total economic costs per-bushel declined in 1992 for all regions and were about 13 percent lower for Delta producers.

RICE. Rice cost of production estimates for 1992 were based on new survey data from the 1992 Farm Costs and Returns Survey (FCRS). Average yields per planted acre increased in all regions over 1991 levels, with the greatest increases occurring in California and the Mississippi River Delta. Total variable costs per acre, which declined 4 percent at the U.S. level to \$316, declined in all regions except California. On a per unit basis, the Mississippi River Delta had the lowest total economic costs (including Government program participation costs) at \$9.23 per cwt., following the Arkansas non-Delta at \$9.76 and California at \$10.01. The Gulf Coast had the highest estimated total economic costs (including program participation costs) at \$10.85 per cwt.

<u>PEANUTS</u>. Seed prices dropped back to normal levels following the drought-induced premium in 1991. The combination of a slightly higher per-pound price of peanuts and higher per-acre yield led to an 8 percent increase in the U.S. per-acre value of peanut production. Per-acre value of peanut production rose by 20 percent in the Southeast due to higher price and yield as well. In the Southern Plains the value of production was nearly unchanged when the combination of lower price and higher yield nearly offset each other. In the Virginia-North Carolina region, the per-acre value of production was only slightly higher as higher price offset lower yields.

<u>COTTON</u>. Although the costs of producing cotton were lower in 1992, cotton yields and prices were lower as well.

MILK. Variable costs of producing milk fell from \$8.66 per hundredweight in 1991 to \$8.64 per hundredweight in 1992. The largest decline in expenses occurred in those regions where concentrates comprised a high proportion of the total feed ration such as the Southeast. There was a reduction of similar magnitude in total cash expenses that was spurred by lower interest costs. Higher milk prices in combination with lower production costs helped to increase returns to management and risk to the levels observed during the 1989-90 period.

<u>COW-CALF</u>. Residual returns to management and risk declined in all regions compared to 1991 levels, largely because of decreased value of production rather than increased prices. Nationally, gross value of production per bred cow was down 6 percent, while in the South the decline was 9 percent. Western producers had the largest cost increase with a 3-percent increase in total economic costs.

HOGS. Cash production costs among U.S. hog producers averaged about \$42 per hundredweight (cwt) of gain during 1992, while total economic costs were around \$58. Farrow-to-finish operations produced hogs with cash costs of \$37 per cwt of gain and economic costs of \$53. Cash costs were about \$69 and economic costs were \$105 per cwt of gain for farrow-to-feeder pig producers. On feeder pig-to-finish operations cash costs were \$50 while economic costs were \$61 per cwt of gain. Little difference was observed between costs and returns of producers in the North and South regions. Market hog prices averaged in the low- to mid-\$40's in 1992, down from \$50-\$60 hogs during 1990-91. Likewise, feeder pig prices averaged from about \$60-\$80, down from \$90-\$130 pigs during the previous two years. Despite lower hog prices in 1992, producers were able to cover cash costs. However, economic costs exceeded the value of hog production.

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Economic Indicators of the Farm Sector Costs of Production, 1992--Major Field Crops and Livestock and Dairy

1992 Production Costs and Returns

Average U.S. economic costs of producing corn, grain sorghum, oats, wheat, soybean, rice, and cow-calf increased in 1992, while economic costs declined for peanuts and cotton. Barley and dairy total economic costs changed little. Variable cash expenses were relatively stable for most crops in 1992 with the exception of peanuts and rice (fig. 1) as seed, fertilizer, and energy costs showed a downward trend (fig. 2).

This year's *Costs of Production* incorporates new production practice and expenditure data from the barley, rice, and hog versions of the 1992 Farm Costs and Returns Survey (FCRS). Estimates for 1990 through 1992 for cow-calf, and for 1989 through 1992 for milk production, were revised to make the methodology consistent with that used for field crops.

The Agriculture and Consumer Protection Act of 1973 and subsequent legislation require that the Department of Agriculture annually estimate costs of producing wheat, feed grains, cotton, milk, rice, peanuts, sugar beets, sugarcane, and tobacco. Regional and U.S. estimates for these commodities, except sugar beets, sugarcane, and tobacco, are presented in this report.

Although the estimates are often called budgets, they are not projections or goals, but historical estimates of costs, reflecting actual levels of input use, production practices, yields, and prices as measured by surveys of producers and suppliers. Costs include both cash expenditures, by farm operators and landlords, and economic costs of production. Direct payments for and costs of participation in Government programs are excluded except for corn, grain sorghum, and rice estimates.

Structure of Accounts

ERS cost-of-production accounts include estimates of both cash expenditures and noncash costs. Cash expenditures are incurred when factors of production are purchased or rented. Noncash costs occur when factors are owned. For example, if a farmer fully owns the land used to produce corn, he would have no expenditure for land rental or for loans to pay for the purchase of land. Yet, an economic cost arises. By owning the land and using it to grow corn, the farmer forgoes income from other uses of the land, such as renting it to another producer. Costs come about because production resources are limited and have alternative uses. If a farmer uses savings to pay for operating inputs, such as seed, fertilizer, chemicals, and fuel, and thus pays no interest on operating loans, the farmer still incurs an economic cost because the savings could have earned a return in another use. Owned inputs are not without cost.

ERS combines in a single account the production costs and returns of farm operators and landlords. If a landlord pays a share of a farmer's costs, such as fertilizer, as part of a rental agreement, then those costs are added to the operator's costs and subtracted from the rental value of the land. Land rent is not included as a *cash* expense because what is a rental expense to the farm operator is offsetting income to the landlord. An ownership cost is imputed instead to land and is included as an economic cost.

Production costs are balanced with values of production (fig. 3). Total economic costs, including returns to all factors of production, are equal to gross value of production. Crops are valued at their time of harvest while livestock and dairy are valued at annual average market prices. Marketing costs and returns are excluded for crops, but included for livestock and dairy. Costs, including such items as hauling and drying, are measured to the point of first sale or storage, but actual storage costs are excluded.

Variable cash expenses per planted acre, 1990-92

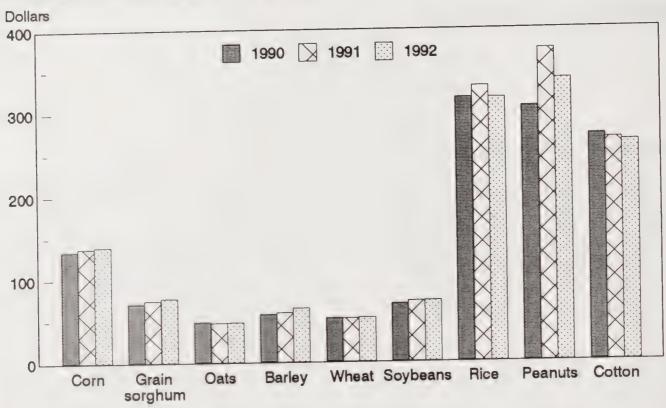
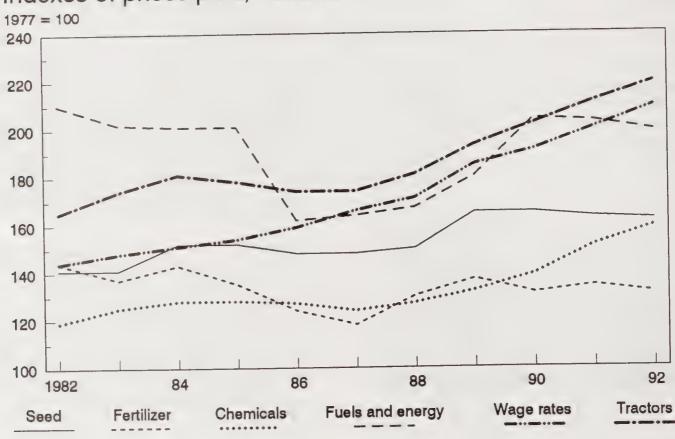


Figure 2 Indexes of prices paid, 1982-92



Some major field crops yield secondary crops, for example, cottonseed from cotton and straw from oats, barley, and wheat. Production costs for the secondary crops cannot be separated from those of the major crops. Therefore, ERS includes estimates of the values of production of secondary crops in order to balance production costs with gross value of production. The value of a secondary crop, especially straw in the North Central region, can be considerable.

Livestock commodities (including milk) are valued at annual average market prices. The total returns category includes receipts from both primary and secondary products of livestock production. Examples of secondary products would be cull dairy cows and dairy calves.

Gross value of production minus cash expenses is a shortterm return to production and measures the amount of cash that would be left to cover longer term costs, such as machinery replacement or debt retirement.

ERS prepares crop production cost estimates on a perplanted-acre basis. Costs are included only for acreage that was planted with the intention of being harvested for grain. Excluded are corn and sorghum silage and small grains planted only as cover crops or for grazing. Costs are included for production that is abandoned because of crop damage. On double-cropped acreage (two crops on the same land in the same growing season), land costs are divided between the two crops. For crops that are planted following a fallow season, 2 years of land costs are counted.

Cow-calf cost estimates are reported on a per-head basis, while milk cost estimates are reported on a per-hundredweight-sold basis. Cost accounts are presented for all hog producers and the various types of hog enterprises. Estimates for all hog producers include farrow-to-finish, farrow-to-feeder pig, feeder pig-to-finish, and all other hog operations. Hog enterprise cost estimates are reported on a per-pound-of-gain basis.

Most commodities are produced on farms which have multiple production or service enterprises; farm machinery, equipment, buildings, and their costs are shared by the various enterprises on the farm. ERS allocates machinery operating costs and capital replacement costs to a particular commodity enterprise based on estimates of hours that the

Figure 3 Structure of accounts Cash costs Variable expenses: Fixed expenses: Total Seed, fertilizer, chemicals, General farm overhead. cash custom operations, fuel, taxes and insurance, repairs, hired labor, drying, expenses and interest irrigation water, and ginning **Economic costs** Allocated returns: Residual Total Operating capital Cash expenses returns to Capital economic nonland capital, excluding management replacement land, and costs interest and risk unpaid labor Value Total of economic production costs

machine is used on that commodity relative to total hours of annual use. General farm overhead expenses and interest payments are allocated to an individual enterprise based on that commodity share of gross value of production.

Government Programs and Costs of Production

Government commodity programs most prominently affect ERS cost-of-production accounts by affecting commodity prices. ERS allocates some whole-farm expenses and calculates share rental costs and residual returns to management and risk from commodity prices. The market prices that ERS uses can be influenced by Government nonrecourse loan and marketing loan programs. Thus, effects of these programs on prices are included in the cost-of-production estimates. Direct Government payments and participation costs in farm income support programs, however, are generally excluded.

The Government's Commodity Credit Corporation (CCC) operates nonrecourse loan programs for corn, grain sorghum, barley, oats, wheat, rice, soybeans, peanuts, and upland cotton. The programs enable producers to use a crop as collateral for a nonrecourse loan. Producers may either repay the loan and sell the crop on the market or forfeit the crop to the CCC at no cost other than storage. Prices are supported as crops are temporarily removed from the market.

Marketing loan programs, which operate for rice and cotton, allow prices to fall below CCC loan rates. Participants can repay loans at either the loan rate or the world price, whichever is lower. Proceeds from marketing loans, that is, the difference between the world price and the nonrecourse loan rate, are included only in the rice estimates that incorporate direct Government payments.

Milk prices are supported through direct market intervention by Commodity Credit Corporation purchases of manufactured dairy products (butter, cheese, and nonfat dry milk). The Government also affects prices for milk and meat by limiting the quantity of milk and meat imports. In addition, the Government assists producers in emergencies caused by natural disasters.

The Government operates deficiency payment programs for corn, grain sorghum, barley, oats, wheat, rice, and upland

cotton. Farmers and landlords, if they participate in the programs, may receive direct payments based on proven yields. Payment rates are calculated as the lesser of either the difference between the CCC loan rate and the Government-established target price or the market price and the target price. A participant may be required to idle acreage that would have been planted to the crop in return for direct payments on the remaining acreage. Participants may also be required to incur costs by maintaining a cover crop or controlling weeds on the idled acreage. ERS prepares COP estimates excluding Government participation costs and direct payments for all commodities. In addition, this report contains COP estimates for corn, grain sorghum, and rice that include direct Government payments and program participation costs. The estimates including direct effects of government program add costs and returns associated with both planted acreage and acreage idled by program participants. Cost and return components that change when program effects are accounted for are denoted in figure 4.

Gross Value of Production

ERS crop enterprise accounts begin with estimates of value of production per acre for each crop. Gross value of production is defined as the value of the primary and secondary crops at the time of harvest. ERS generally excludes deficiency payments, paid land diversions, and marketing loan proceeds from gross value of production. Also excluded are income from crop insurance indemnities and disaster assistance payments. An additional set of estimates for corn, grain sorghum, and rice includes deficiency payments and marketing loan proceeds. Deficiency payments on 0/92 and 50/92 acreage are included. There were no marketing loans for corn or sorghum.

The gross value of production for livestock commodities includes the value of primary and secondary products, as well as any other related sources of income to the enterprise. Any direct Government program benefits are excluded from receipts. To ensure consistency between costs and returns, income from cooperative memberships, manure sales, and any other income derived from livestock enterprise assets are added to gross value of production (and reported as "other income") when expenses for these items are not separable from other farm enterprise expenses.

Budget line items affected by Government program participation 1/ Table A--Program commodity production cash costs and returns ______ Gross value of production: Market value of primary crop Market value of secondary crop * Deficiency payments * Marketing loan proceeds

Cash expenses:

Seed

Fertilizer, lime, and gypsum

* Chemicals 2/

Custom operations 3/

- * Fuel, lube, and electricity * Repairs
- * Hired labor

Drying

* Other variable cash expenses 4/

* Haying/grazing on set-aside acreage Total, gross value of production

- Total, variable cash expenses
- * General farm overhead
- * Taxes and insurance
- * Interest
- Total, fixed cash expenses
- Total, cash expenses

* Gross value of production less cash expenses Harvest-period price (dollars/bu.) Yield (bu./planted acre)

Table B--Program commodity production economic costs and returns

Gross value of production:

Market value of primary crop

Market value of secondary crop

- * Deficiency payments
- * Marketing loan proceeds
- * Haying/grazing on set-aside acreage
- Total, gross value of production

Economic (full ownership) costs:

- * Variable cash expenses
- * General farm overhead
- * Taxes and insurance
- * Capital replacement
- * Operating capital
- * Other nonland capital
- * Land
- * Unpaid labor
- Total, economic costs

* Residual returns to management and risk

Harvest-period price (dollars/bu.)

Yield (bu./planted acre)

1/ Asterisk (*) indicates line item generally adjusted for Government program participation. 2/ May include custom and self-applied chemicals on government program conserving-use

3/ Cost of custom operations and technical services. 4/ May include cost of purchased irrigation water and cover crop seed on set-aside acres.

Variable and Fixed Cash Expenses

Cash expenses represent the amount of money spent during the production process. Variable cash expenses associated with crop production include seed, fertilizer, chemicals, custom operations, hired labor, fuel, repairs, purchased irrigation water, drying, cotton ginning, and technical services, such as insect scouting and soil testing. For livestock and milk production the major variable expense items are feed, energy, machinery and building repairs, and labor. Variable cash expenses depend upon production practices as well as quantities and prices of inputs used.

Fixed cash expenses include real estate and property taxes, insurance, general farm overhead, and interest paid on operating loans and real estate loans. Items considered general farm overhead may vary between crop and livestock enterprises, but generally represent factors of production whose services are utilized but are not directly attributable to any single production activity on the farm. Some examples of general farm overhead include legal fees, magazine subscriptions, farm utilities, and other general business expenses. Fixed cash expenses, which are difficult to assign directly to a specific enterprise on a farm, are allocated to each commodity based on its relative share of the total value of production.

Economic (Full-Ownership) Costs

Economic costs are long-term costs that account for all production inputs, without regard to the ownership or equity positions of farm operators. Full-ownership costs are charged. Economic costs include both variable and fixed cash expenses (except cash interest payments), capital replacement, imputed costs of land, unpaid labor, capital invested in production inputs and machinery, and residual returns to management and risk. Cash expenses are valued by market prices or by expenditures reported by farmers. Opportunity costs (noncash) are measured from values of capital, land, and unpaid labor in alternative uses. Opportunity costs are called allocated returns to owned inputs, in accord with the full-ownership definition.

Capital replacement. Capital replacement is the portion of the value of machinery and equipment, in addition to repairs, that is used up in the production process. It is based on the current value of the machinery. Capital replacement may be regarded as a discretionary expense in any particular year. It may be deferred when income is low but ultimately must be paid to maintain the capital stock.

Operating and other nonland capital. The cost of,

or the return to, operating capital is the cost of carrying input expenses from the time they are used until harvest. ERS measures the return to operating capital at the annual average rate on 6-month U.S. Treasury bills. The return to other nonland capital is the cost of having capital invested in farm machinery and equipment. ERS calculates this cost as equal to the longrun rate of return to agricultural production assets.

Land. Cropland is a specialized input. Its value depends on the value of the crops that it produces, which is reflected in share and cash rental costs. Because an alternative use for land for any one landowner is to rent it to someone who will produce the same crop, ERS values land in the cost-of-production accounts at its rental value. The land rental rates for each crop are composite share and cash rental rates. ERS calculates the share rental value directly from the actual yield and price of the crop. Cash rental rates, which are fixed at the outset of production, presumably reflect expectations about crop yields and prices. The net land rent (gross rent minus real estate taxes and the value of inputs supplied by landlords and adjusted for double-cropping and fallow rotation) is applied to all acreage, regardless of whether it is owned or rented by the farm operator.

Government commodity programs, which support crop prices and make payments to farm operators and landlords based on yields, affect the costs of land. When ERS excludes direct Government payments from gross value of production, it also excludes the payments from the share rent. Including the payments increases the share rental charge when the crop's market price is below the direct Government payment level.

Land cost for the cow-calf and hog enterprises includes a charge only on land used for building sites, manure storage, corrals, and lots. A cash rental rate is used to value this land. Land used to produce livestock feed, such as corn or forage, is not included in the land cost, but rather its feed value is included as a variable cost.

Unpaid labor. Labor costs are divided between hired and unpaid labor depending upon whether a cash wage is paid. ERS counts hired labor as a variable cash expense and imputes a value to unpaid labor based on estimated hours worked and average agricultural wage rates. Unpaid labor is included as a noncash cost. Additional value of labor, such as for managerial and entrepreneurial skill, is reflected in residual returns.

Residual returns to management and risk.

The difference between gross value of production and the total of cash expenses except interest, allocated returns to operating capital, other nonland capital, land, and unpaid labor is residual returns to management and risk. Returns to management are expected to be positive, though their level is not known. Because of variability in weather and commodity prices, which are beyond a farmer's control, returns to risk in any particular year may be positive or negative. Over time, however, they should average zero. Combined returns to management and risk, therefore, are expected to be positive.

For some commodities, the average returns to production management and risk shown in ERS accounts have been consistently negative in recent years. Because direct Government payments are excluded from the accounts, the estimated gross value of production may be less than what farmers actually receive. Although costs, particularly for land, would also increase if direct Government payments were included, residual returns may be greater than shown. Net returns to marketing a crop beyond production may also be positive.

Data Sources

The primary data source for annual cost-of-production estimates is the Farm Costs and Returns Survey (FCRS). It is supplemented with price and production data from other sources, mainly Agricultural Prices (7) and Crop Production (8). Seed, fertilizer, and machinery operating costs are generally derived from producers' descriptions of inputs, field operations, and machinery used on a particular commodity and from input price and machinery performance data. Other variable cash expenses and fixed cash expenses come from producers' estimates of expenditures (5). Livestock building and equipment values are derived from producers' descriptions of those used, along with annual building cost guides (10).

ERS calculates cost-of-production estimates using farm-level estimation procedures. Commodity specific models have been developed for corn, grain sorghum, oats, barley, wheat, soybean, rice, peanuts, cotton, milk, cow-calf, and hog commodities. A farm-level model calculates production costs for each farm in the FCRS and then aggregates the costs to produce regional and U.S. estimates. The farm-level approach to cost estimation allows greater differentiation in costs between farms and more detailed analysis of cost-of-production information.

Farm Costs and Returns Survey

The FCRS is conducted annually by ERS and the National Agricultural Statistics Service (NASS). Each year, there are multiple versions of the FCRS: an indepth whole-farm version and commodity cost-of-production versions. All versions have common questions about whole-farm expenses and income. Each cost-of-production version gathers more detailed information about input use, field operations, and production costs of a particular crop.

The FCRS is a multiframe stratified survey. The sample is drawn from stratified list and area frames. For a particular cost-of-production version, the list frame is made up of farms known to have produced the commodity previously. The list frame is stratified by size. The area frame is made up of land segments, stratified by land use. Each sampled farm represents a number of similar farms, the particular number being the survey expansion factor, which is the inverse of the probability of the sampled farm being selected. Data are expanded by the survey expansion factors to produce estimates for the population of all farms producing the commodity.

Farmers are interviewed in person by field enumerators using questionnaires developed by NASS and ERS. The FCRS takes place during February and March, with questions being asked about production in the previous year.

FCRS base years. Because of survey costs, USDA cannot undertake detailed cost-of-production surveys of every major field crop in every year. Instead, the FCRS covers each commodity in detail about every 4 to 5 years (fig. 5). ERS updates the FCRS-based costs from other data sources in nonsurvey years.

Figure 5
Basis years for costs of production estimates, 1984-92 1/

-	1984 1985	1986	1987	1988	1989	1990	1991	1992
Corn	1982-83		1	987				91
Sorghum	1982-83		1986				1990	
Oats	19	83				1988		
Barley	1982-83			198	7			1992
Wheat	1982-83	198	6				1989	
Rice	1984			1988	3			1992
Soybeans	1982-83	1	986				1990	
Peanuts	1982			987			18	991
Cotton	1982		1.11	987			1	991
Dairy	1980	198	5				1989	
Cow-calf		1980					1990	
Hogs	1	980			198	88		1992

1/ Years in shaded areas indicate Farm Costs and Returns Survey year for the time period shown.

Note: Costs are estimated annually between survey years.

Statistical precision. The FCRS, like other surveys, is not a complete enumeration of all farms. A sample is chosen to represent all farms producing a particular commodity. There are many possible samples, each of which can yield different estimates even if the same questionnaires, instructions, and enumerators are used.

The variation in estimates that comes simply from different possible samples is called sampling error. Sampling "error" is not the result of mistakes. It arises because any randomly chosen sample may not exactly match the population of all farms: the values of data items can differ from farm to farm and only some of the farms are selected in a sample.

Sampling error is controlled in the FCRS by the sample size and by carefully grouping or stratifying similar farms before samples of each group or stratum are drawn. By measuring the differences in a data item

within the groups, ERS measures FCRS sampling errors, an indication of how far the value in the sample may be from the "true" value for all farms. Chemical costs per acre, an item that is measured solely from the FCRS, had sampling errors of about 4 percent for the U.S. rice, wheat, and soybean estimates. This means that there is a 95-percent probability that the FCRS estimates are within about 8 percent of the "true" costs.

Survey data may also contain nonsampling errors, such as misstating of questions by enumerators and inability or unwillingness of respondents to give accurate answers. Nonsampling errors are controlled in the FCRS by designing and pretesting questions so that they can be answered easily and accurately from farm records, by training and supervising enumerators who are familiar with farming in the surveyed areas, and by reviewing data for consistency.

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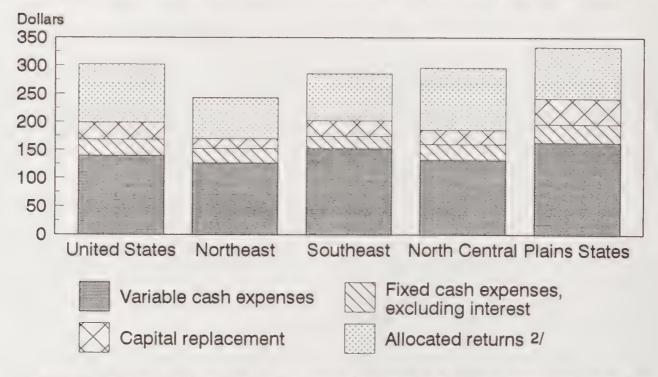
5. _____. Economic Indicators of the Farm Sector:

Corn Production Regions



Figure 7

Corn production economic costs per planted acre, 1992^{1/}



1/ Excluding government payments. 2/ Income foregone by allocating resources owned by the operation (operating and other nonland capital, land, and unpaid labor) to corn production rather than some other income-producing use.

nd returns, 1982-92	
costs a	
S. corn production cash costs and returns, 1	
Table 1AU.S. c	

Item	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
				Do	Dollars per	planted	acre	16 11 11 11 11 11 11 11 11	18 00 01 01 01 01 01 01 01 01) i 1 1 1 1 1 1 1 1 1	11 11 11 11 11 11 11 11
(excluding direct Government payments): Corn Total, gross value of production	243.45	252.82	272.94	252.17	167.03	186.56 186.56	217.20	255.37	257.33	254.98	274.33
Cash expenses: Seed Fertilizer, lime, and gypsum	16.45	16.65	18.03	18.48	19.25	18.86	18.90	21.02	20.52	21.61	22.10
Chemicals Custom operations 1/	18.24	19.12	19.51	19.51	20.27	20.19	20.49	21.51	22.64	22.46	23.46
Fuel, lube, and electricity Repairs	10.73	20.95	19.45	22.87	18.22	8.80 25.85	16.59	20.12	24.00	18.92	18.29
Other variable cash expenses 2/ Total, variable cash expenses	5.78 0.58 133.52	3.52 0.58 128.30	3.83 0.59 132.79	4.02 0.58 136.81	7.87 0.31 120.41	7.83 0.31 117.39	7.87 0.32 122.60	8.29 0.31 133.42	8.61 0.30 134.21	7.37 0.41 137.88	7.74 0.40 139.52
General farm overhead Taxes and insurance Interest Total, fixed cash expenses	16.20 13.93 47.31	15.22 13.45 45.10	15.37 17.00 45.91 78.28	10.93 17.47 32.72 61.12	10.42 13.81 20.96 45.19	10.15	10.81	10.42	12.06 14.85 16.65	10.39 17.98 16.79	10.58 18.41 14.74
Total, cash expenses	210.96	202.07	211.07	197.93	165.60	158.30	162.94	173.84	177.77	183.04	183.25
Gross value of production less cash expenses	32.67	50.83	62.16	54.70	2.00	27.72	54.20	81.53	79.55	71.94	91.08
	113.76	3.21	2.58	2.15	118.46	118.83	2.61	2.22	2.19	2.31	2.05

Table 18--U.S. corn production economic costs and returns, 1982-92

7861	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
ross value of production				D0	Dollars per	planted	acre		11 11 11 11 11 11 11		
(excluding direct Government payments): Corn Total, gross value of production	243.45	252.82	272.94	252.17	167.03	186.56 186.56	217.20	255.37	257.33	254.98	274.33
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance	133.52	128.30	132.79	136.81	120.41	117.39	122.60	133.42	134.21	137.88	139.52
Capital replacement Operating capital Other nonland capital		33.56	33.73	34.62	29.77	30.08	30.95	34.01	35.61	27.23	30.19
Land Unpaid labor Total, economic costs	51.29 10.74 270.86	47.95 10.03 258.45	67.63 10.30 289.61	54.82 11.45 277.02	41.19 19.70 243.12	44.26 20.04 244.57	52.83 21.26 262.57	57.80 22.04 284.89	292.52 23.06 292.52	61.61 23.54 292.55	24.29 302.33
Residual returns to management and risk	-27.23	-5.55	-16.38	-24.39	-75.52	-58.55	-45.43	-29.52	-35.19	-37.57	-28.00
Harvest-period price (dollars/bu.) 2.14 Yield (bu./planted acre) 113.76	113.76	3.21	2.58	2.15	118.46	118.83	2.61	2.22	2.19	2.31	2.05

I/ Lost of custom operations, technical services and commercial drying. 2/ Cost of purchased irrigation water. Note: Survey base changed in 1986 and 1991.

Table 1C--U.S. corn production cash costs and returns, including direct Government payments and program participation costs, 1991-92

	=======	=======
Item	1991	1992
	=======	=======
		per planted
	а	cre
Gross value of production		
(including direct Government payments):		
Market value of corn grain	254.98	
Direct government payments 1/	28.23	
Having/grazing on ACR and CU acreage		0.32
Total, gross value of production	283.64	322.95
Cash expenses:		
Seed	21.61	22.10
Fertilizer, lime, and gypsum	44.59	
Chemicals	22.56	
Custom operations 2/	9.21	9.54
Fuel, lube, and electricity	19.26	
Repairs	13.58	
Hired labor	7.44	
Other variable cash expenses 3/	1.05	
Total, variable cash expenses	139.30	140.33
General farm overhead	11.28	
Taxes and insurance		19.67
Interest	17.89	
Total, fixed cash expenses	48.62	47.62
Total, cash expenses	187.92	187.95
Gross value of production less cash expenses	95.72	
Harvest-period price (dollars/bu.)		2.05
Yield (bu./planted acre)	110.38	133.82
Percent of planted corn acres in program	69	6/
	=======	

Table 1D--U.S. corn production cash costs and returns, including direct Government payments and program participation costs, 1991-92

Item	1991	1992
2000	========	=======
	Dollars	per planted
		cre
Gross value of production		
(including direct Government payments):		
Market value of corn grain	254.98	274.33
Direct government payments 1/	28.23	48.30
Haying/grazing on ACR and CU acreage	0.43	0.32
Total, gross value of production	283.64	322.95
, , , , , , , , , , , , , , , , , , , ,		
Economic (full ownership) costs:		
Variable cash expenses	139.30	140.33
General farm overhead	11.28	11.81
Taxes and insurance	19.45	19.67
Capital replacement	27.52	30.25
Operating capital	3.79	2.50
Other nonland capital	10.34	11.98
Land	68.04	75.43
Unpaid labor	23.76	25.14
Total, economic costs	303.48	317.11
, , , , , , , , , , , , , , , , , , , ,		
Residual returns to management and risk	-19.84	5.84
	========	
Harvest-period price (dollars/bu.)	2.31	2.05
Yield (bu./planted acre)	110.38	133.82
Percent of planted corn acres in program	69	67
	========	=======
1/ Deficiency payments. Payments are not ac	diusted for	payment

1 + em	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	7661
	11	ii 11 11 11 11 11	11 11 11 11 11 11 11	lod	lars per	planted a					
Gross value of production (excluding direct Government payments): Corn Total, gross value of production	214.48	272.65	313.26 313.26	268.89 268.89	160.81	157.88	214.40	256.67	273.06	156.42	173.60
Cash expenses: Seed Fertilizer, lime, and gypsum Chemicals Custom operations 1/ Fuel, lube, and electricity	14.56 56.28 18.14 8.26 19.26	14.22 52.51 19.05 8.07 16.85	16.16 55.21 19.47 17.12	17.46 54.35 19.50 11.42 19.19	19.56 45.08 18.19 8.81 11.40	19.34 43.72 18.17 8.65 11.78	19.46 50.21 18.47 7.09 11.48	22.09 55.77 19.33 13.77 11.36	20.83 50.68 20.30 9.38 115.16	21.15 21.59 9.11 12.50	21.79 27.76 21.23 8.94 11.67
Repairs Hired labor Other variable cash expenses 2/	4.20 0.28 131.56	3.99 0.28 125.22	4.41 0.28 133.54	4.61 0.28 138.90	6.69 0.00 119.65	6.64 0.00 118.06	6.83 0.00 123.30		135.10		
General farm overhead Taxes and insurance Interest	14.40 15.25 40.48	25.19	25.60 17.64 37.91 81.15	20.60 18.69 34.51 73.80	7.94 15.51 8.83 32.28	7.76 15.26 6.85 29.87	8.23 15.47 6.25 29.95	7.96 16.02 6.43 30.41	9.21 15.73 7.08 32.02	5.39 19.64 3.00 28.03	20.62 20.62 2.66 28.80
Total, fixed cash expenses	201.69		214.69	212.70	151.93	147.93	153.25	169.56	167.12	157.88	154.87
lotal, cash expenses	13.21		99.05	56.25	8,48	10.15	60.89	87.11	105.94	-1.46	18.73
Harvest-period price (dollars/bu.)	2.24	11	2.94	2.45	1.74	1.77	3.08	2.60 98.72	0 0 1	61.34	75.81
Tield (bd.) promised action pronomic costs and returns, North	returns.	Northeast	, 1982-92	14 16 10 11					10 01 01 01 01 01 01	90 01 01 01 01 01 01	11 11 11 11 11 11
Table 28Lorn production economic 2002 discrete 1982 1983	1982	1983	1984	11 11 11	1986	1987	1988	1989	1990	1991	0 11
	11 11 11 11 11 11 11 11 11 11 11 11 11	10 10 11 11 12 14 10 11) 	llars per	planted	acre				
Gross value of production (excluding direct Government payments): Corn Total, gross value of production	214.48	272.65	313.26	268.89	160.81	157.88	214.40	256.67	273.06	156.42	173.60
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital regisement	131.56 14.40 15.25 26.18 5.37	125.22 25.19 16.34 26.54 4.14	133.54 25.60 17.64 29.65 4.76	138.90 20.60 18.69 30.19 3.98	119.65 7.94 15.51 30.67 2.46	118.06 7.76 15.26 30.39 2.72	123.30 8.23 15.47 31.71	139.15 7.96 16.02 34.99 4.26	135.10 9.21 15.73 36.10 3.85	129.85 5.39 19.64 16.44 3.53	126.07 5.52 20.62 17.60 2.25 9.47
Other nonland capital Land Unpaid labor	24.50 11.96	72,11	29.83	25,2	24.33 20.95 227.70		30.80 23.52 243.62				
Total, economic costs	-19.52	31	53.61	100	-67.29	7.79-		-13.55	5.37	-87.02	-69.20
Harvest-period price (dollars/bu.)	2.24	3.70	2.94	2.45	1.74	1.77	3.08	6	-	61.3	N CO II

Table 2C--Corn production cash costs and returns, including direct Government payments and program participation costs, Northeast, 1991-92

1771 72		
I tem	1991	1992
1 (41)	1,,,,	177=
		per planted
		acre
Gross value of production		
(including direct Government payments):		
Market value of corn grain	156.42	
Direct government payments 1/	12.12	20.42
Haying/grazing on ACR and CU acreage	0.26	0.23
Total, gross value of production	168.80	194.25
Cash expenses:		
Seed	21.15	21.79
Fertilizer, lime, and gypsum	41.77	
Chemicals	21.59	21.23
Custom operations 2/	9.11	8.94
Fuel, lube, and electricity	12.63	
Repairs	10.99	
Hired labor	12.88	
Other variable cash expenses 3/	0.60	
Total, variable cash expenses	130.72	126.72
General farm overhead	6.49	6.83
Taxes and insurance	21.62	22.33
Interest	4.08	3.72
Total, fixed cash expenses	32.19	32.88
Total, cash expenses	162.91	159.60
Gross value of production less cash expenses		34.65
Harvest-period price (dollars/bu.)	2.55	2.29
field (bu./planted acre)	61.34	75.81
Percent of planted corn acres in program	29	30
	========	========

Table 2D--Corn production economic costs and returns, including direct Government payments and program participation costs, Northeast, 1991-92

Item	1991	1992
	0-11	
		per planted
Cross value of maduation	6	acre
Gross value of production		
(including direct Government payments):	457 (0	
Market value of corn grain	156.42	
Direct government payments 1/	12.12	
Haying/grazing on ACR and CU acreage	0.26	
Total, gross value of production	168.80	194.25
Economic (full ownership) costs:		
Variable cash expenses	130.72	126.72
General farm overhead	6.49	
Taxes and insurance	21.62	
Capital replacement		17.66
Operating capital	3.56	
Other nonland capital	8.51	
Land		29.49
Unpaid labor	30.45	
Total, economic costs	247.31	4
Total, economic costs	247.31	240.37
Residual returns to management and risk	-78.51	-52.12
	========	========
Harvest-period price (dollars/bu.)	2.55	2.29
Yield (bu./planted acre)	61.34	75.81
Percent of planted corn acres in program	29	30
1/ Deficiency nayments Payments are not ad	========	========

1982 1	1982	1983	1984	1985	1986	987	1988	1989	1990	144	1776
	11 11 11 11 11 11 11 11	ii 13 14 10 11 11 11 14	61 61 71 71 71 71 71 71 71	lod	lars per	planted a	асге				
Gross value of production (excluding direct Government payments): Corn Total, gross value of production	189.64	205.67	248.03	205.43	120.28	145.03	204.11	246.64	195.49	224.24	255.33
Cash expenses: Seed Fertilizer, lime, and gypsum Chemicals Custom operations 1/ Fuel lube, and electricity Repairs	10.55 10.55 10.15 10.15 10.15	15.08 17.49 10.12 15.20 3.92	17.02 17.96 10.88 10.79	17.26 61.60 18.03 8.54 16.64 10.61	19.45 46.10 21.62 5.75 10.61	21.68 21.68 21.53 20.77	82.7.2 2.7.2.1 2.6.2.3 2.6.2.2 2.6.2.3 2.6	23.72 23.72 23.08 11.88 10.00	21.23 54.28 6.72 16.13	18.74 25.04 35.77 14.67 16.17	18.90 25.47 3.92 14.75 16.11
Hired tabor Other variable cash expenses Total, variable cash expenses	140.65	0.18			122.42		130.67		0 0		
General farm overhead Taxes and insurance Interest	10.99 6.68 41.48	10.26 6.68 32.99 49.93	10.44 7.47 34.20 52.11	7.38 7.80 22.43 37.61	7.32 7.99 11.50 26.81	7.08 8.42 8.78 24.28	7.64 8.45 8.33 24.42	7.27 9.08 8.25 24.60	8.41 9.10 26.12	9.36 11.75 8.64 29.75	9.57 12.72 7.29 29.58
וואבת רמאו באלהואים	199, 79	185.46	194.63	174.83	149.23	146.53	155.09	168,43	167.29	180.34	181.62
cash expenses	-0.56		53.49	30.74	-28.91	-1.32	0	78.21	28.20	43.90	73.71
Harvest-period price (dollars/bu.)	2.14	3.67	2.79	2.34	1.66	1.79	2.87	2.44	2.43	0 0	112.98
The transfer and intion proposite and	returns,	11 +	, 1982-92	11 11 10 11 11 11 11 11 11						60 81 91 91 91 91 91	1.6 0.7 0.1 0.1 0.1 0.1 0.1
	1082	1983	1984	1985	1986	1987	10	1989	19	1991	1992
	#	11	11	Do	llars per	planted	acre				
Gross value of production (excluding direct Government payments): Corn Total, gross value of production	199.64	205.67	248.03	205.43	120.28	145.03	204.11	246.64	195.49	224.24	255.33
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance	140.64	135.53 10.26 6.68 22.93	142.52 10.44 7.47	137.22 7.38 7.80 24.05	122.42 7.32 7.99 22.93	122.25 7.08 8.42 23.64	130.67 7.64 8.45 24.31	143.83 7.27 9.08 28.39	141.17 8.41 8.61 27.54	150.59 9.36 11.75 25.05	152.04 9.57 12.72 27.60
capital replacement Operating capital Other nonland capital	24.05	3.48		4.51 35.43	23.33 23.33	26.44 26.41	5.51 34.31	43.45	32.75	67.63	10.79
Land Unpaid Labor Total accomic costs	11.31	11.16		12.41	18.60	19.36	21.43	24.30	252.77	274.42	285.68
Residual returns to management and risk	-40.24	-22.38	-2.09	-27.33	-89.18	-69.23	-31.51	-18.65	-57.28	-50.18	n [1]
Harvest-period price (dollars/bu.) 2.14	2.14	3.67	2.79	2.34 87.79	1.66	1.79	2.87	101.08	2.43	2.51 89.34	2.26 112.98 ======

Table 3C--Corn production cash costs and returns, including direct Government payments and program participation costs, Southeast, 1991-92

200000000000000000000000000000000000000	========	=======
Item	1991	1992
	========	=======
	Dollars pe	er planted
	8	acre
Gross value of production		
(including direct Government payments):		
Market value of corn grain	224.24	255.33
Direct government payments 1/	19.10	28.36
Haying/grazing on ACR and CU acreage	0.47	0.34
Total, gross value of production	243.81	284.03
locat, gross value of production		
Cook expenses		
Cash expenses: Seed	18.74	18.90
Fertilizer, lime, and gypsum	55.73	55.17
Chemicals	25.07	25.49
Custom operations 2/	3.77	3.92
tustom operations 2/	14.83	14.85
Fuel, lube, and electricity	16.29	
Repairs	16.55	
Hired labor	0.61	
Other variable cash expenses 3/	151.59	152.73
Total, variable cash expenses	131.37	152.15
a farm averboad	10.02	10.52
General farm overhead	13.95	14.59
Taxes and insurance	9.18	7.95
Interest	33.15	33.06
Total, fixed cash expenses	33.13	33.00
The land of the summers of	184.74	185.79
Total, cash expenses	104.14	105117
a	59.07	98.24
Gross value of production less cash expenses		
Harvest-period price (dollars/bu.)	2.51	2.26
Harvest-period price (dottars/pa.)	89.34	112.98
Yield (bu./planted acre) Percent of planted corn acres in program	42	41
Percent of planted corn acres in program		========
25		

Table 3D--Corn production cash costs and returns, including direct Government payments and program participation costs, Southeast, 1991-92

Item	1991	1992
	Dollars p	er planted
		acre
Gross value of production (excluding direct Government payments): Market value of corn grain Direct government payments 1/ Haying/grazing on ACR and CU acreage Total, gross value of production	224.24 19.10 0.47 243.81	255.33 28.36 0.34 284.03
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land Unpaid labor Total, economic costs	151.59 10.02 13.95 25.14 4.12 9.35 47.35 19.64 281.16	10.84 54.57 20.66
Residual returns to management and risk	-37.35	-10.31
Harvest-period price (dollars/bu.) Yield (bu./planted acre) Percent of planted corn acres in program	2.51 89.34 42	2.26 112.98 41

Item	I tem 1982 1	1983	1984	1985	1986	786	1988	1989	1990	1991	7661
) 	86 01 11 19 19 19 11 11	e i 11 16 16 16 16 18 18 18 18	Dol	lars per	planted a	acre				
Gross value of production (excluding direct Government payments): Corn Total, gross value of production	250.93	256.83	274.88	254.90	171.70	192.31	197.61	260.44	265.05 265.05	247.82	272.90
Cash expenses: Seed Fertilizer, lime, and gypsum Chemicals Custom operations 1/ Fuel lube, and electricity Repairs Hired labor	16.86 54.27 18.88 7.37 22.59 9.57	52.63 19.81 17.80 8.76 5.05	18.62 55.28 20.31 7.47 16.67 9.75	20.29 20.29 20.20 20.20 30.64 30.64	22.13 22.145 16.659 6.64 6.64	19.11 22.22 52.22 16.72 6.68 6.90	19.21 22.59 4.47 13.00 6.27	21.22 23.66 53.66 17.46 7.21 0.00	20.70 24.88 24.88 6.05 21.39 7.64	21.42 45.26 22.26 22.94 8.80 12.15 5.99	21.96 43.55 23.91 9.18 12.65 13.87 6.29
Other variable cash expenses 2/ Total, variable cash expenses	133.14		131.67	0 0							
General farm overhead Taxes and insurance Interest Total fixed cash expenses	16.82 14.63 48.45 79.90	14.28 13.84 45.77 73.89	14.61 18.59 47.29 80.49	10.49 18.96 34.32 63.77	11.53 15.59 24.08 51.20	11.26 16.80 18.56 46.62	11.94 16.60 17.14 45.68	11.56 16.84 17.44 45.84	13.37 16.86 19.20 49.43	9.65 18.21 15.49 43.35	9.84 18.47 13.65 41.96
Total cash expenses	213.04	200.76	212.16	199.09	172.91	164.78	168.89	180.07	184.30	172.49	173.37
Gross value of production less cash expenses	37.60	55.96	62.88	N	N	27.	28.68	80.37	80.75	75.33	99.53
Harvest-period price (dollars/bu.) 2.09 Yield (bu./planted acre) 120.06	2.09 120.06	3.17	2.53	2.09	1.36	125.69	2.56	119.47	2.16	221	135.77
Table 48Corn production economic costs and	returns,	North Cen	al,	-92						11 11 13 14 15 16 17	11 11 11 11
1982 19	1982	II O	19	85	1986	1987	1988	1989	-	18	1992
	H 11 11 11 11 11 11		11 11 11 11 11 11 11 11	Do	llars per	planted	acre				
Gross value of production (excluding direct Government payments): Corn Total, gross value of production	250.93	256.83	274.88	254.90	171.70	192.31	197.61	260.44	265.05	247.82	272.90
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Land Unpaid labor Total economic costs	133.14 16.82 14.63 34.01 6.05 5.98 54.58 9.80 275.00	126.87 14.28 13.84 34.11 50.11 8.72 257.87	131.67 14.61 18.59 34.18 5.84 6.89 775.85 9.69	135.32 10.49 18.87 4.34 60.58 10.21 281.32	121.71 11.53 11.53 30.55 20.55 63.14 43.14 19.86 250.18	118.16 11.26 16.80 30.83 2.76 5.21 45.44 20.71	123.21 11.94 16.44 31.45 5.95 47.02 221.75 261.33	134.23 11.56 16.84 34.72 4.20 8.00 58.86 22.99 291.40	134.87 13.37 16.86 36.67 3.82 9.22 60.78 224.30	129.14 18.21 18.21 3.51 3.51 8.75 66.40 24.62 24.62 282.85	131.41 9.84 18.47 25.86 2.35 10.51 71.89 25.93 296.26
Residual returns to management and risk	-24.36	-1.15	-21.79	-26.00	-78.53	-59.04	-63.76	-30.96	-34.84		
Harvest-period price (dollars/bu.)	Harvest-period price (dollars/bu.) 2.09	3.17	2.53 108.65	2.09	1.36	1.53	2.5	119.47	2.16	108.22	135.77

Table 4C--Corn production cash costs and returns, including direct Government payments and program participation costs, North Central, 1991-92

North Central, 1991-92		
Item	1991	1992
	Dollars	per planted acre
Gross value of production (including direct Government payments): Market value of corn grain Direct government payments 1/ Haying/grazing on ACR and CU acreage Total, gross value of production	247.82 29.19 0.30 277.31	272.90 50.75 0.22 323.87
Cash expenses: Seed Fertilizer, lime, and gypsum Chemicals Custom operations 2/ Fuel, lube, and electricity Repairs Hired labor Other variable cash expenses 3/ Total, variable cash expenses	21.42 45.26 23.01 8.80 12.89 12.38 6.04 0.57 130.37	13.92 6.32 0.37
General farm overhead Taxes and insurance Interest Total, fixed cash expenses Total, cash expenses	10.70 19.69 16.85 47.24	19.72 15.26 46.20 178.28
Gross value of production less cash expenses Harvest-period price (dollars/bu.) Yield (bu./planted acre) Percent of planted corn acres in program	99.70 2.29 108.22 70	2.01

Table 4D--Corn production cash costs and returns, including direct Government payments and program participation costs, North Central, 1991-92

Item	1991	1992
	Dollars	per planted
Gross value of production (including direct Government payments): Market value of corn grain Direct government payments 1/ Haying/grazing on ACR and CU acreage Total, gross value of production	247.82 29.19 0.30 277.31	272.90 50.75 0.22 323.87
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land Unpaid labor Total, economic costs	130.37 10.70 19.69 22.82 3.55 8.90 73.41 24.84 294.28	11.22 19.72 25.91 2.36 10.61 84.42 26.09
Residual returns to management and risk Harvest-period price (dollars/bu.) Yield (bu./planted acre) Percent of planted corn acres in program	-16.97 ======= 2.29 108.22 70	2.01

1982 1	1982	0	1984	985	198	1987	1988	1989	1990	1991	1992
	11 11 11 11 11 11 11 11	11 11 11 11 11 11 11		Dol	lars per	ted	l o				
Gross value of production (excluding direct Government payments): Corn Total, gross value of production	232.83	244.55	264.15	257.53	169.67	183.22 183.22	274.25	235.52	245.56	295.70	300.73
Cash expenses: Seed Fertilizer, lime, and gypsum Chemicals Custom operations 1/	16.21 29.40 16.21 5.61	15.38 28.94 17.09 5.71		4 4 4 4	18.52 25.86 13.92 5.50		17.83 26.56 14.12 5.43		19.64 15.73 16.23	22.81 40.71 20.63 11.51	23.25 40.08 21.94 11.96
Fuel lube, and electricity Repairs Hired labor Other variable cash expenses 2/	36.24 15.19 4.57 1.63	33.23 15.75 4.52 1.63	29.60 15.74 4.84 1.65	33.83 15.83 13.64 135.73	27.13 11.82 9.56 1.14 113.45	28.26 11.89 9.51 11.11	12.49 9.86 1.15 116.62	12.95 10.71 125.64	13.36 10.70 1.14 128.74		
General farm overhead Taxes and insurance Interest	15.71		, ,		8.26 9.75 16.21 34.22	8.00 10.02 12.20 30.22	8.51 10.06 11.12 29.69	8.21 10.02 11.44 29.67	9.50 10.14 12.53 32.17	13.52 18.33 24.25 56.10	13.78 19.14 21.38 54.30
Total, cash expenses	202.61		207.55	195.93	147.67	141.60	146.31	155.31	160.91	218.38	217.68
Gross value of production less cash expenses 29.94	29.94		56.24	-	7.	1.6	NO I	80.21	84.65	77.32	83.05
Harvest-period price (dollars/bu.) Yield (bu./planted acre)	11 1	3.08	2.55 103.59	2.21	1.48	1.59	105.48	106.57	112.13	128.01	140.53
Table 58Corn production economic costs and returns, Plai	returns, F		ates,	2-92				11 10 13 11 10 11 11 11	() 11 11 11 11 11 11	11 11 11 11 11 11 11	H 11 18 10 11 11 11
Item	1982	19	1984	198	1986		1988	1989	1990	1991	1992
Gross value of production (excluding direct Government payments): Corn Total, gross value of production	232.83	244.55 244.55	264.15 264.15	257.53 257.53	ollars per 169.67 169.67	planted 183.22 183.22	77	35.	99	295.	900
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Land Unpaid labor	125.05 14.92 36.38 5.85 6.62 49.44	122.25 17.81 15.39 38.09 4.59 6.18 6.73 12.86	124.93 17.77 16.63 37.27 5.26 13.27 13.27 13.27	135.75 17.38 39.73 77.77 77.69 14.34	29.75 29.75 29.75 20.75	111.38 8.00 10.02 29.46 2.64 5.47 49.71 17.70	116.62 10.06 30.92 3.20 77.94 19.05	125.64 8.21 10.02 32.81 4.02 81.18 20.36 270.64	128.74 9.50 10.14 34.17 3.69 9.59 9.59 20.65 20.65	162.28 13.52 43.02 44.1 14.85 55.36 331.94	163.38 13.78 15.76 2.92 16.56 49.10 22.15
Residual returns to management and risk	-34.43	-22.	-15.93	-21.	-61.67	-50.81	1.73	-35.12	-37.76	-36.24	
Harvest-period price (dollars/bu.) 2.28	2.28 102.12	3.08	2.55	116.53	114.64	120		2.21 106.57	112.13	128.01	140.53

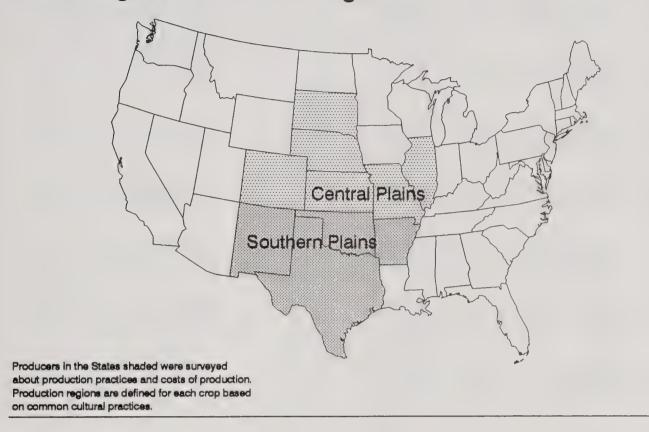
Table 5C--Corn production cash costs and returns, including direct Government payments and program participation costs, Plains, 1991-92

1991-92		
Item	1991	1992
	Dollars	per planted acre
Gross value of production (including direct Government payments): Market value of corn grain Direct government payments 1/ Haying/grazing on ACR and CU acreage Total, gross value of production	295.70 29.52 0.82 326.04	49.06 0.62
Cash expenses: Seed Fertilizer, lime, and gypsum Chemicals Custom operations 2/ Fuel, lube, and electricity Repairs Hired labor Other variable cash expenses 3/ Total, variable cash expenses	22.81 40.71 20.85 11.51 39.98 16.96 8.98 2.60 164.40	11.96 37.56 17.64 9.67 2.36
General farm overhead Taxes and insurance Interest Total, fixed cash expenses Total, cash expenses	13.93 19.53 24.70 58.16	20.27 22.36 57.23
Gross value of production less cash expenses Harvest-period price (dollars/bu.) Yield (bu./planted acre) Percent of planted corn acres in program	2.31 128.01 77	2.14 140.53 73

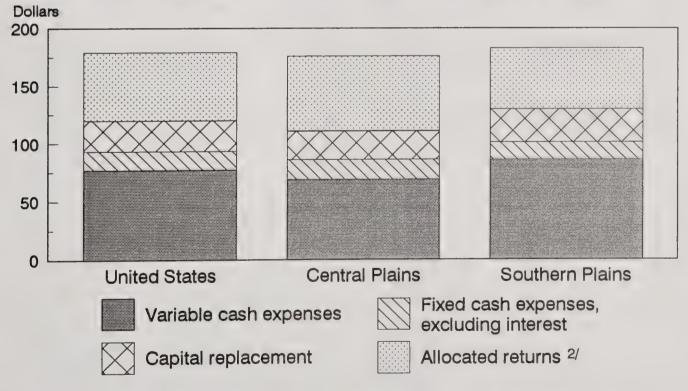
Table 5D--Corn production cash costs and returns, including direct Government payments and program participation costs, Plains, 1991-92

Item	1991	1992
	Dollars	per planted
		acre
Gross value of production		
(including direct Government payments):		
Market value of corn grain	295.70	300.73
Direct government payments 1/	29.52	
Haying/grazing on ACR and CU acreage	0.82	
Total, gross value of production	326.04	350.41
Economic (full ownership) costs:		
Variable cash expenses	164.40	164.62
General farm overhead	13.93	
Taxes and insurance	19.53	
Capital replacement	43.49	
Operating capital	4.47	2.94
Other nonland capital	15.08	16.76
Land	61.79	58.92
Unpaid labor	20.43	22.33
Total, economic costs	343.12	346.28
Residual returns to management and risk	-17.08	4.13
	========	========
Harvest-period price (dollars/bu.)	2.31	
Yield (bu./planted acre)	128.01	140.53
Percent of planted corn acres in program	77	73
4/ Deficiency parents Demonts one not od	=======	========

Grain Sorghum Production Regions



Grain Sorghum economic costs per planted acre, 1992 1/



1/ Excluding government payments. 2/ Income foregone by allocating resources owned by the operation (operating and other nonland capital, land, and unpaid labor) to grain sorghum production rather than some other income-producing use.

I tem 1982 1	1982	983	-	- 1	1986	1987	1986	1707	1990	1771	2241
		16 16 11 11			lars per	lanted a	ψ.				
Gross value of production (excluding direct Government payments): Sorghum Total, gross value of production	121.36	131.58	123.73	124.99	91.57	96.18	141.59	105.24	117.49	124.90	127.67
Cash expenses: Seed Fertilizer Chemicals Custom operations 1/ Fuel Lube, and electricity	23.70	3.89 9.26 3.92 17.08	3.76 20.49 9.41 3.71 14.80	20.34 20.34 3.96 14.52	3.80 17.65 9.73 4.00 10.03	15.33 9.87 4.02 11.23	3.59 10.22 3.95 11.01	20.15 9.61 4.19 13.57	5.43 10.11 4.34 14.80	10.97 10.97 11.51	18.82 11.18 4.88 14.79 12.70
Repairs Hired labor Other variable cash expenses Total, variable cash expenses	2.73 0.65 69.16					4-14	3-4	4 wiwi			
General farm overhead Taxes and insurance Interest	8.11 7.45 22.19 37.75	7.65 7.82 20.76 36.23	7.68 8.34 19.94 35.96	5.67 7.51 13.71 26.89	6.01 7.92 11.46 25.39	6.83 8.32 11.32 26.47	9.40 8.72 12.99 31.11	6.32 13.15 8.09 27.56	5.28 10.02 8.79 24.09	4.64 8.90 8.10 21.64	5.88 10.35 8.41 24.64
יואכע נפטון כאביו כאביו כאביו	106.91	0	100.83	89.50	80.89	81.96	87.61	98.89	95.03	96.31	101.71
force value of production less cash expenses	14.45	8		5	9.0	14.22	0	6.35	22.46	28.59	25.96
Harvest-period price (dollars/bu.) 2.11	2.11	2.84	2.34	1.90	11-0	6.8	2.36	0.00	0.7.1	5.0	7.9
Table 68U.S. grain sorghum production economic costs and	omic costs	ret	====== ns, 198	-92					11	11 11 11	11 15 11 11 11 11
1 tem	1982	1983	1984	1985	1986	1987	1988	1989	066	1991	11
	11 11 11 14 14 11 11 11 11	11 11 11 11 11 11 11	11 11 11 11 11 11	Do	llars per	8	re i				
Gross value of production (excluding direct Government payments): Sorghum Total, gross value of production	121.36	131.58	123.73	124.99	91.57	96.18 96.18	141.59	105.24	117.49	124.90	127.67
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital	69.16 88.11 23.87 2.90 4.10	66.76 7.65 7.82 26.74 2.29 4.04 31.18	64.87 23.93 2.42 2.42 28.86	62.61 22.56 22.56 2.17 33.79	55.50 6.01 7.92 23.04 1.32 4.19 25.51	55.49 6.83 8.32 23.13 1.47 4.18 26.47	56.50 9.40 24.46 1.73 37.20	222.15	22.23 22.73 22.73 22.73 25.73	74.67 4.64 8.90 24.51 2.03 11.85 25.70	77.07 5.88 10.35 26.77 1.38 13.50 25.92
Unpaid Labor Total, economic costs	10.92		0 P	بن ن		0 0	0 0	176.30			0 0
Residual returns to management and risk	-33.38	7.	7.2	22.	-42.09	-39.59	-11.50	-71.06	-46.66	0 11	-51.62
Harvest-period price (dollars/bu.) 2.11 2 3.19 46 46	2.11	2.84	2.34 52.81	1.90	6.9	1.4	0.	50.8	56.76	55.02	1.88 67.91

Table 6C--U.S. grain sorghum production cash costs and returns, including direct Government payments and program participation costs, 1990-92

Item	1990	1991	1992
		s per pla	
Gross value of production			
(including direct Government payments):		404 00	427 (7
Market value of sorghum	117.49	124.90	127.67 28.34
Direct Government payments 1/	25.62	21.81	0.73
Haying/grazing on ACR and CU acreage	0.21 143.32	0.19 146.90	156.74
Total, gross value of production	143.32	140.90	130.74
Cash expenses:			F 70
Seed	5.43	5.52	5.70
Fertilizer	17.71	18.42	18.82 11.55
Chemicals	10.43	11.31	4.88
Custom operations 2/	4.34	4.46	15.81
Fuel, lube, and electricity	16.06 11.52	12.57	13.48
Repairs	8.06	8.48	9.13
Hired labor	0.67	0.40	0.79
Other variable cash expenses 3/	74.22	78.53	80.16
Total, variable cash expenses	14.22	10.33	00.10
General farm overhead	5.64	4.91	6.20
Taxes and insurance	10.61	9.36	10.85
Interest	9.39	8.61	8.89
Total, fixed cash expenses	25.64	22.88	25.94
Total, cash expenses	99.86	101.41	106.10
Gross value of production less cash expenses	43.46	45.49	50.64
	2.07	2.27	1.88
Harvest-period price (dollars/bu.)	56.76	55.02	67.91
Yield (bu./planted acre)	68	63	60
Percent of planted sorghum acres in program		========	=======

Table 6D--U.S. grain sorghum production economic costs and returns, including direct Government payments and program participation costs, 1990-92

Item	1990	1991	1992
	Dollar	s per pla	ented acre
Gross value of production (including direct Government payments): Market value of sorghum Direct Government payments 1/ Haying/grazing on ACR and CU acreage Total, gross value of production	117.49	124.90	127.67
	25.83	22.00	28.34
	0.21	0.19	0.73
	143.53	147.09	156.74
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land Unpaid labor Total, economic costs	74.22	78.53	80.16
	5.64	4.91	6.20
	10.61	9.36	10.85
	24.58	26.90	28.55
	2.85	2.17	1.49
	10.62	13.09	14.36
	27.30	27.47	27.37
	18.25	18.74	19.44
	174.07	181.17	188.42
Residual returns to management and risk	-30.54	-34.08 =======	-31.68 =======
Harvest-period price (dollars/bu.) Yield (bu./planted acre) Percent of planted sorghum acres in program	2.07	2.27	1.88
	56.76	55.02	67.91
	68	63	60

^{1/} Deficiency payments. Payments are not adjusted for payment limitations.

^{2/} Cost of custom operations, technical services, and commercial drying.
3/ Cost of purchased irrigation water, cover seed, and other input items.

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1982-02
cash costs and returns, Central Plains.
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I tem 1982	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
Gross value of production				Do	Dollars per	planted	acre	11 11 11 11 11 11 11 11	80 81 81 80 60 60 88	10 10 11 11 11 10 11 11	
(excluding direct Government payments): Sorghum Total, gross value of production	126.18	127.27	120.36	126.18	94.60	98.65	139.05	104.39	125.41	122.78 122.78	134.00
Cash expenses:									0	07.77	00.40
Seed Fertilizer	3.27		3.55	3.52	3.55	3.78	3.39	10.90	5.06	5.02	5.28
Custom oppositions 1/	9.87		10.46	11.76	11.80	11.67	11.94	11.09	11.67	12.62	12 7.2
Fuel, lube, and electricity	16.13		12.74	2.93	2.93	3.04	3.04	3.08	3.17	3.15	3.19
Kepairs Hired labor	9.34		9.03	7.18	7.09	7.25	7.33	10.31	10.38	10.67	11.87
Other variable cash expenses 2/ Total, variable cash expenses	0.25	0.22	0.23	0.00	2.04	20.00	20.03	5.36	5.28	5.73	5.99
	6		12.20	37.66	22.42	25.25	55.86	24.67	64.88	66.87	68.83
General farm overhead Taxes and insurance	8.77		7.75	5.25	4.86	7.30		6.25		79.7	5.76
Interest Total, fixed cash expenses	26.46	23.03	21.96	14.81	10.70	12.13	13.52	20.02	10.31	0.55 0.55	10.21
Total, cash expenses	109.48	102.77	101.74	87.86	78.04	81.26	86.56	29 76		00 R1	04 00
Gross value of production less cash expenses	16.70	24.50	18 62	78 22	16 56	17 20	62 /0	ì	14		
		0.5			=======================================		74.47	7.70	55.92	51.97	38.00
Harvest-period price (dollars/bu.) 2.02 Yield (bu./planted acre) 62.59	2.02 62.59	45.73	54.29	70.21	75.28	1.36	2.29	1.98	1.93	2.18	1.74
Table 78Grain sorghum production economic costs and returns,	osts and r	urns,	Central Pl	ains, 1982.	2-92					1 1 4 1 1 1	
I tem 1982	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1002
Gross value of production		81 01 10 11 11 11 11 11	11 21 21 21 11 11 11 11) O O	Dollars per	planted a	acre	H H H H H H H H H H H H H H H H H H H			
(excluding direct Government payments):											
Total, gross value of production	126.18 126.18	127.27	120.36	126.18 126.18	09.76	98.65	139.05	104.39	125.41	122.78	134.00
Economic (full ownership) costs:										1111	00.40

64.85 8.77 8.77 24.17 2.75 4.43 29.16 9.14 Variable cash expenses Unpaid labor Total, economic costs General farm overhead Capital replacement Operating capital Other nonland capital laxes and insurance Land

Yield (bu./planted acre) 62.59 45.73 54.29 70.21 75.28 72.69 60.68 52.72 64.98 56.32 77.01 64.88 5.30 21.88 2.42 2.42 9.99 19.25 -37.38 1.93 64.67 6.25 14.23 21.48 2.60 16.09 30.74 118.92 -70.59 1.98 53.86 9.58 9.58 1.71 1.71 4.96 36.67 147.50 2.29 -8.45 52.52 7.30 9.31 22.70 1.43 4.25 27.14 7.84 1.36 -33.84 1/ Cost of custom operations and technical services. 2/ Cost of purchased irrigation water. Note: Survey base changed in 1985 and 1990. 53.45 4.86 9.03 22.68 1.31 4.30 26.32 130.12 1.26 -35.52 59.22 5.25 8.58 2.12 4.17 34.40 7.63 1.80 -27.90 2.22 62.21 7.75 9.82 24.14 2.37 4.98 27.89 9.10 62.45 7.76 9.53 28.20 2.23 4.42 30.24 9.07 45.73 26.63 2.02 -26.49 Residual returns to management and risk Harvest-period price (dollars/bu.)

-41.89

68.83 24.90 24.90 113.31 29.22 29.22 29.22 57.89

66.87 4.64 9.75 22.54 11.82 11.51 11.51 19.76 19.76

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Table 7C--Grain sorghum production cash costs and returns, including direct Government payments and program participation costs, Central Plains, 1990-92

	=======	=======	
Item	1990	1991	1992
	Dollar	s per pla	nted acre
Gross value of production			
(including direct Government payments):	405 /4	122.78	134.00
Market value of sorghum	125.41	22.21	33.32
Direct Government payments 1/	28.17	0.24	1.07
Haying/grazing on ACR and CU acreage		145.23	168.39
Total, gross value of production	153.84	142.23	100.39
Cash expenses:			
Seed	5.06	5.02	5.28
Fertilizer	17.47	18.02	18.13
Chemicals	11.92	12.87	13.69
Custom operations 2/	3.17	3.15	3.19
Fuel, lube, and electricity	12.27	12.05	11.31
Repairs	10.78	11.09	12.29
Hired labor	5.46	5.92	6.18
Other variable cash expenses 3/	0.31	0.45	0.30
Total, variable cash expenses	66.44	68.57	70.37
General farm overhead	5.51	4.80	5.97
Taxes and insurance	11.42	10.06	11.59
•	10.65	9.83	10.53
Interest Total, fixed cash expenses	27.58	24.69	28.09
Total, cash expenses	94.02	93.26	98.46
Gross value of production less cash expenses	59.82	51.97	69.93
Harvest-period price (dollars/bu.)	1.93	2.18	1.74
wield (by (plented scre)	64.98	56.32	77.01
Yield (bu./planted acre) Percent of planted sorghum acres in program	69	64	68
Percent of planted sorghum acres in program			

Table 70--Grain sorghum production economic costs and returns, including direct Government payments and program participation costs, Central Plains, 1990-92

tem	1990	1991	1992
	Dollar	s per pl	anted acre
Gross value of production (including direct Government payments): Market value of sorghum Direct Government payments 1/ Haying/grazing on ACR and CU acreage Total, gross value of production	125.41	122.78	134.00
	28.17	22.21	33.32
	0.26	0.24	1.07
	153.84	145.23	168.39
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land Unpaid labor Total, economic costs	66.44	68.57	70.37
	5.51	4.80	5.97
	11.42	10.06	11.59
	22.70	23.42	25.78
	2.51	1.88	1.27
	10.37	12.03	13.79
	29.17	27.18	30.18
	20.01	20.52	22.21
	168.13	168.46	181.16
Residual returns to management and risk	-14.29	-23.23	-12.77
	=======	=======	
	1.93	2.18	1.74
	64.98	56.32	77.01
	69	64	68
Percent of planted sorghum acres in program	=======	=======	limitation

^{1/} Deficiency payments. Payments are not adjusted for payment limitations.

^{2/} Cost of custom operations, technical services and commercial drying.
3/ Cost of purchased irrigation water, cover crop seed, and other input items.

Gross value of production		1 1 1 1 1									
				Dod	llars per	planted a	icre				
<pre>(excluding direct Government payments): Sorghum Total, gross value of production</pre>	115.87	135.47	128.49	123.15	86.95	91.48	147.03	105.25	105.95	127.87	121.65
Cash expenses: Seed Fertilizer Chemicals	4.06 19.30 7.37	19.12	18.06	4.24 19.88 6.52	4.18 17.07 6.58	6.58	16.60	5.67 7.57 7.57	18.04	81.8 18.95 77.8	6.13 19.51 8.93
Fuel (lube, and electricity Repairs	21.93		0 0 0	19.56 2.56 4.56	0044	15.29			0 0 0	0 0 0	أبمتن
Other variable cash expenses 2/ Total, variable cash expenses	1.07		0 0 0	0.35	JWIN	0.34		000	000	200	5.4
General farm overhead Taxes and insurance Interest Total, fixed cash expenses	7.31 17.78 30.47	7.37 5.53 17.58	7.41	5.86	7.78	5.92	9.02 6.88 11.83	6.16	5.26 8.69 6.74	4.63 7.78 6.18	25.50
Total, cash expenses	103.31	0.		2	5			4.			
Gross value of production less cash expenses 12.56		3.5	9.0	1.0		-	7.1	7.0	6.1	4.2	
Harvest-period price (dollars/bu.) Yield (bu./planted acre)	2.21	2.90	2.57	2.08	1.61	1.50	2.50	2.20	2.32	2.40	2.07
Table 88Grain sorghum production economic costs and returns	sts and r	Irns,	01	lains, 1	82					9 9 9 9	
I tem	1982	19	984	1985	198		19	1989		1991	19
Gross value of production (excluding direct Government payments): Sorghum	115.87	135.47		15	lars p	lante	cre	50	105.95		1.6
Economic (full ownership) costs: Variable cash expenses General farm overhead	72.84	4.V	. 88	67.			62.	80.5	79.1	85.0	85.
Taxes and insurance Capital replacement Operating capital Other nonland capital	23.44	24.53	23.40	23.54	23.60	6.43 23.95 1.54 4.05	6.88 27.61 1.77 5.38	11.65 24.56 3.24 14.56	23.92	27.15	9.50 28.64 1.53
Land Unpaid labor Total, economic costs	26.99 12.50 155.21	9-0						200	-20	0.00	
Residual returns to management and risk -39.34	-39.34	-23.51	0 1	-32.12	0.1	2	0	00	0.1	0.9	0 1
Harvest-period price (dollars/bu.) 2.21 Yield (bu./planted acre) 52.47 4	2.21 52.47	6.9	2.57	2.0	1.61	1.50	2.50	2.20	2.32	2.40	2.07

Table 8A--Grain sorghum production cash costs and returns, Southern Plains, 1982-92

Table 8C--Grain sorghum production cash costs and returns, including direct Government payments and program participation costs, Southern Plains, 1990-92

=======================================		=======	=======
Item	1990	1991	1992
			nted acre
Gross value of production			
(including direct Government payments):			
Market value of sorghum	105.95	127.87	121.65
Direct Government payments 1/	22.18	21.27	24.36
Having/grazing on ACR and CU acreage	0.13	0.12	0.39
Total, gross value of production	128.26	149.26	146.40
Cash expenses:			
Seed	5.93	6.18	6.13
Fertilizer	18.04	18.95	19.51
Chemicals	8.41	9.23	9.40 6.58
Custom operations 2/	5.93	6.20	20.33
Fuel, lube, and electricity	21.18	23.51 14.55	14.67
Repairs	12.53 11.57	11.90	12.09
Hired labor	1.15	1.28	1.41
Other variable cash expenses 3/	84.74	91.80	90.12
Total, variable cash expenses	04 . 14	71.00	,0112
General farm overhead	5.83	5.06	6.43
Taxes and insurance	9.52	8.42	10.11
Interest	7.69	6.98	7.25
Total, fixed cash expenses	23.04	20.46	23.79
Total, cash expenses	107.78	112.26	113.91
Gross value of production less cash expenses	20.48	37.00	32.49
	2.32	2.40	2.07
Harvest-period price (dollars/bu.)	45.67	53.28	58.77
Yield (bu./planted acre) Percent of planted sorghum acres in program	66	62	50
Percent of planted sorginal acres in program	=======	=======	=======

Table 8D--Grain sorghum production economic costs and returns, including direct Government payments and program participation costs, Southern Plains, 1990-92

I tem	1990	1991	1992
***************************************	Dollar	s per pla	ented acre
Gross value of production (including direct Government payments): Market value of sorghum Direct Government payments Total, gross value of production	105.95	127.87	121.65
	22.32	21.39	24.36
	128.27	149.26	146.01
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land Unpaid labor Total, economic costs	84.74	91.80	90.12
	5.83	5.06	6.43
	9.52	8.42	10.11
	27.13	31.54	31.32
	3.31	2.57	1.70
	10.97	14.51	14.93
	24.79	27.86	24.55
	15.88	16.37	16.66
	182.17	198.13	195.82
Residual returns to management and risk	-53.90	-48.87	-49.81 =======
Harvest-period price (dollars/bu.) Yield (bu./planted acre) Percent of planted sorghum acres in program	2.32	2.40	2.07
	45.67	53.28	58.77
	66	62	50

^{1/} Deficiency payments. Payments are not adjusted for payment limitations.
2/ Cost of custom operations, technical services, and commercial drying.
3/ Cost of purchased irrigation water, cover crop seed, and other input items.

Oats Production Regions

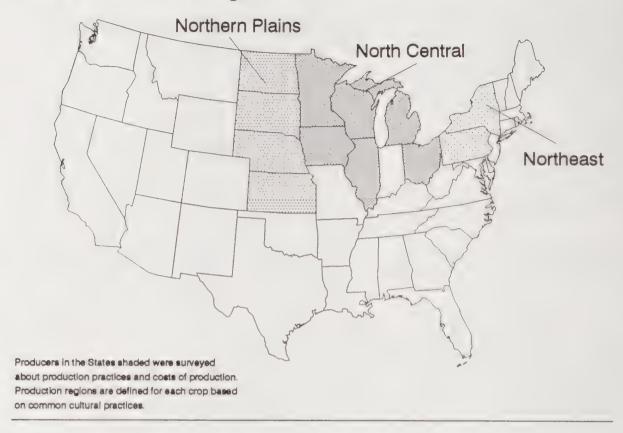
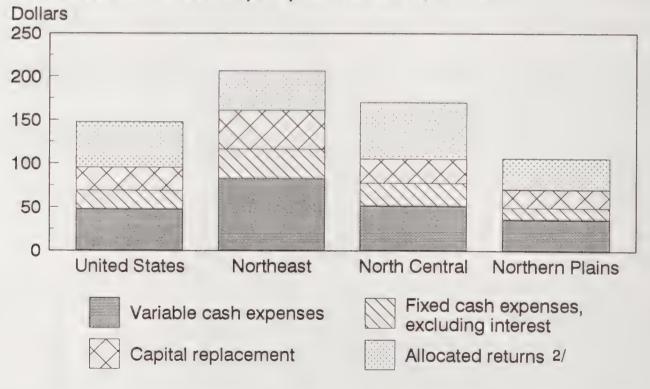


Figure 11
Oats economic costs per planted acre, 1992^{1/}



1/ Excluding government payments. 2/ Income foregone by allocating resources owned by the operation (operating and other nonland capital, land and unpaid labor) to oats production rather than some other income-producing use.

1982 1	1982	1983	1984	1985	1986	1987	1988	ii	1989	1989 1990	9
				Dol	lars per	planted a	acre				
Gross value of production (excluding direct Government payments): Oats Oats straw Total, gross value of production	78.33 25.44 103.77	70.82 23.78 94.60	83.96 20.78 104.74	55.61 23.82 79.43	48.68 20.26 68.94	70.54 10.73 81.27	94.3	38	88 81.69 74 15.63 12 97.32	81. 15. 97.	81.69 66. 15.63 14. 97.32 80.
Cash expenses: Seed Fertilizer, lime, and gypsum Chemicals Custom operations 1/ Fuel lube, and electricity Repairs Hired labor Total, variable cash expenses	7.15 12.52 1.25 1.25 1.67 1.61 47.23	5.71 11.22 1.34 4.10 10.53 7.86 1.55 43.27	8.82 12.23 1.38 4.16 8.80 7.54 1.63 45.54	8.47 11.43 1.23 3.76 6.42 1.51 0.97	7.555 7.555 7.555 7.559 7.559 7.59	12.94 1.01 1.01 5.68 5.28 3.81 3.90 39.80	88.34 1.086 1.086 1.090 1.000		13.85 13.82 13.82 13.82 14.66 14.54 16.00	9,50,40,00,40,00,40,00,40,40,40,40,40,40,40	13.82 13.82 13.82 12.10 6.39 6.39 6.78 6.78 6.78 6.78 6.78 6.78 6.78 6.78
General farm overhead Taxes and insurance Interest Total, fixed cash expenses	4.67 12.21 13.17 30.05	5.18 12.35 14.07 31.60	5.32 13.58 14.66 33.56	3.90 13.53 11.69 29.12	4.67 15.88 9.24 29.79	12.35 12.35 19.97	3.33 12.72 3.35 19.40		3.13 13.23 3.44 19.80		.23 13. 44 3. 80 20.
Total, cash expenses	77.28	74.87	79.10	70.97	86.99	59.77	63.64		68.80		.80 69.
Gross value of production less cash expenses	56.49	19.73		8.46	1.96	21.50	48.48	11	28.52	• 11	.52 11.37 10.
Harvest-period price (dollars/bu.) 1.42 Yield (bu./planted acre) 55.25	1.42		1.65		0.86	53.95	2.66		1.52	.52	.52 1. .74 61.
Table 98U.S. oats production economic costs and returns,	and retur		.92				1 1 1 1 1 1				
1 tem	1982	19	1 8	98	1986	1987	1988	1 11	1989	989 199	989
	#	16 10 11 11 16 16 11		Do	llars	planted	cre				
Gross value of production (excluding direct Government payments): Oats Oats straw Total, gross value of production	78.33 25.44 103.77	70.82 23.78 94.60	83.96 20.78 104.74	55.61 23.82 79.43	48.68 20.26 68.94	70.54 10.73 81.27	94.38 17.74 112.12		81.69 15.63 97.32		.69 66. .63 14. .32 80.
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Nonland capital Land Labor	47.23 4.67 12.21 22.05 1.40 4.48 26.82 11.79	43.27 5.18 12.35 22.98 4.18 24.25	45.54 5.32 13.58 23.42 1.23 5.33 26.35	41.85 13.53 19.17 10.94 17.46	37.19 4.67 15.88 27.45 0.60 5.98 14.63	39.80 12.35 19.35	44.24 23.33 12.72 21.72 4.68 14.68		49.00 24.93 24.93 1.97 1.97 15.67		23. 13. 13. 13. 13. 13. 13. 13. 13. 13. 1
Total, economic costs	130.66						6			70 - 62	65 85 cz

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-58.69 -62.80 -45.64 1.09 1.22 1.26 61.16 50.02 66.32

0.86 1.31 2.66 1.52

-32.61

Residual returns to management and risk -26.89 -30.01 -27.96
Harvest-period price (dollars/bu.) 1.42 1.45 1.65
Yield (bu./planted acre) 55.25 48.92 50.82

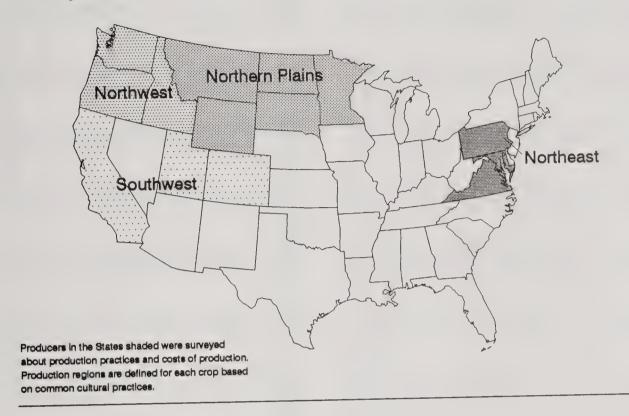
on rnment payments): of production 1 gypsum ricity xpenses 2/ h expenses	4822 54888652 52 54888652 5489 55	86.17 37.91 24.08		Dod		n anted a	1 6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1
	48.52 5.48.88.85.85.85.85.85.85.85.85.85.85.85.85	86.17 37.91 24.08			lars per	a	cre				
lime, and gypsum tions 1/ and electricity le cash expenses 2/ iable cash expenses	25 67.53388865		106.09 41.34 147.43	85.76 32.67 118.43	53.42 38.43 91.85	73.91 33.10 107.01	115.79 37.16 152.95	79.27 34.92 114.19	79.56 38.62 118.18	67.30 43.26 110.56	100.85 44.13 144.98
lime, and gypsum tions 1/ and electricity le cash expenses 2/ iable cash expenses	2 2222288652										
operations 1/ Locations 1/ Locations 1/ Locations 1/ Locations 1/ Locations 2/ Loca	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		12.47 31.16 3.17								
abor ariable cash expenses , variable cash expenses	20 34 20	0 0	11.70								
	.56	2.22	2.18	2.26	1.25	3.87	78.21	81.15	4.77 0.00 81.34	84.12	5.18 0.00 82.91
veneral Tarm Overhead Taxes and insurance 16.47 Interest fixed cash expenses 37.66	7.53	9.57 17.04 12.01 38.62	9.75	9.07 18.71 15.19 42.97	13.71 21.38 11.71 46.80	8.52 16.01 4.18 28.71	8.55 15.66 4.39 28.60	8.29 16.60 4.47 29.36	9.61 17.19 4.95 31.75	8.40 15.34 4.55 28.29	11.43 21.99 5.26 38.68
	. 26		119.26	120.92	113.09	100.64	106.81	110.51	113.09	112.41	121.59
Gross value of production less cash expenses 14.96	96.	7.	8.1		1.2	, ivi	-	3.68	5.09		
Harvest-period price (dollars/bu.) 1.53 Yield (bu./planted acre) 60.51	.53		1.96	11 - 9	0.83	ll ← ∞	2.28	1.4	1.2	1.5	# ← ∞
Table 10BOats production economic costs and returns, No	rns, No	1 21	8								
I tem	1982	19	1984	1985	1986	1987			1990	18	18
Gross value of production	ii 11 81 81 81			Dol	lars per	planted	acre	III		1 1 1]
(excluding direct Government payments): 92,44 Oats Oats straw Total gross value of production 130,22	748	86.17 37.91	106.09	85.76 32.67 118.43	53.42	33.10	115.79 37.16 152.95	79.27 34.92	79.56 38.62	67.30 43.26 110.56	100.85 44.13
COST ST	1	0))	1)			
le cash expenses	.56		0 0	8 9	13.71	8.52	78.21	81.15	9.61	84-12	82.91 11.43
Taxes and insurance Capital replacement 28. Operating capital 2.	28.78	30.07	31.31	31.61	37.59	0 0 0	8 8 0	41.20			8 0 9
	6.28		0 0	0 0	4 6	0 0	0 0	6 D			
Unpaid tabor Total, economic costs 164.	88		0 9	8 0	8 9	0 0	0 0	0 0			0 0
Residual returns to management and risk -34.66	99.	-40		-53.05	-82.36	M	-22.43	-77.89	-74.24	-85.68	-61.36
Harvest-period price (dollars/bu.) 1. Yield (bu./planted acre) 60.	1.53	1.60	1.96	1.12	0.83	1.27	2.28	1.42 55.89	4:	3.4	- ∞

Table 11AOats production cash costs and returns, North	TIS, NOFT	n Central	, 1982-92	11	11	11			11 11 11 11 11 11 11 11 11 11 11 11 11		11
Item	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
				Dod	Dollars per	planted a	acre				
Gross value of production (excluding direct Government payments): Oats	39.08	80.06	93.19	60.68	52.52	75.93	106.26	101.11	73.04	59.09	25.28
Total, gross value of production	119.07		123.21					121.63	90.50		8
Cash expenses: Seed Fertilizer lime, and avosum	7.75		10.26	9.65	6.20			10.72	9.30	8.28	9.61
Chemicals Custom operations 1/	1.25	5.56	5.23	3.83	3.06	5.67	5.60	6.17	9.21	0.8 7.4.7 6.4	7.43
Fuel, lube, and electricity Repairs	7.59		7.58	6.52	7.78			6.30	5.22	9.09	6.50
Other variable cash expenses 7/	1.34		51.73	1.35	41.18			51.87	0.00	0.00	51.62
General farm overhead Taxes and insurance	5.15	5.48	5.61	4.52	4.93	3.22	3.24	3.15	3.71	3.24	21.71
Interest Total, fixed cash expenses	13.93	4 1	17.14		36.81	4 4	3.66	23.51	4.17	3.83	30.55
Total, cash expenses	87.27	87.81	92.38	83.57	77.99	68.58	71.88	75.38	78.57	73.71	82.17
Gross value of production less cash expenses	31.80		30.83	11.47	2.78	20.72	57.27	46.25	11.93	7.10	27.64
Harvest-period price (dollars/bu.) 1.45 Yield (bu./planted acre) 55.14	1.45	1.52	1.69	1.32	0.87	1.31	2.73	1.55	1.10	1.21	1.28
Table 118094c and returns		1	108	082-92							
1+ bm	1082	1083	1984	1985	1986	1987	1988	1989	1990	1991	1992
ז רבווו	1705	200		1	- 1						1 81 11 11 11 11 11 11 11 11 11 11 11 11

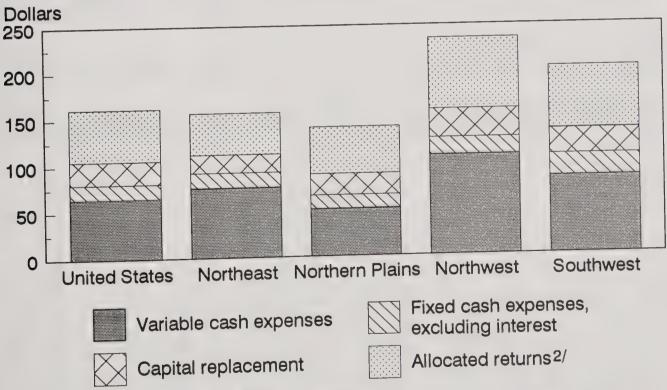
(excluding direct Government payments): 79.99 Oats Straw 39.08 Total direct Covernment payments): 10.07										
	80.06 38.70 118.76	93.19 30.02 123.21	60.68 34.36 95.04	52.52 28.25 80.77	75.93 13.37 89.30	106.26 22.89 129.15	101.11 20.52 121.63	73.04 17.46 90.50	59.09 21.72 80.81	84.53 25.28 109.81
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Nonland capital Land Unpaid labor Total, economic costs 152.72 52.72 54.30 64.37 14.19	49.80 16.48 26.26 1.26 1.36 1.37 1.49.70	51.73 26.05 1.49 6.04 33.50 14.14	46.50 17.25 20.70 1.07 12.89 129.59	41.18 4.93 20.17 30.76 0.71 18.17 18.17 139.05	45.52 3.22 16.18 21.24 4.13 24.42 134.58	48.96 3.24 16.02 22.50 0.88 5.11 34.40 19.78	51.87 3.15 16.58 25.85 2.09 7.23 33.55 161.77	53.72 3.71 16.97 25.47 2.00 7.75 28.53 160.63	51.50 3.24 15.14 26.61 1.40 9.04 23.71 159.98	51.62 4.41 27.61 27.61 27.61 28.83 25.42 170.09
d risk	-30.94	-33.25	-34.55	-58.28	-45.28	-21.74	-40.14	-70.13	-79.17	-60.28
Harvest-period price (dollars/bu.) 1.45 Yield (bu./planted acre) 55.14	1.52	1.69	1.32	0.87	1.31	2.73	1.55	1.10	1.21	1.28

Item	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
Gross value of production	# E E E E E E E E E E E E E E E E E E E	1 1 1 1 1 1 1 1		00	ars per	nted a	re				
(excluding direct Government payments): Oats Oats straw Total, gross value of production	74.08 6.74 80.82	59.06 6.27 65.33	70.24	44.31 8.03 52.34	42.90	63.11 3.24 66.35	72.03 5.59 77.62	54.99 5.18 60.17	56.01 4.59 60.60	62.02 3.21 65.23	79.02 4.36 83.38
Cash expenses: Seed Fertilizer Chemicals	6.18	4.80 7.08 1.05	6.65 7.88 1.01	7.53	4.19 6.54 0.95	5.00	6.17	7.74	6.58	5.70	6.00
Custom operations 1/ Fuel, lube, and electricity Repairs	2.56 7.24 7.24						0 0 0	5.38			
Hired labor Other variable cash expenses 2/ Total, variable cash expenses	1.11	0 0 0		0 0 0				3.85 0.00 34.52			8 9 9
General farm overhead Taxes and insurance Interest	3.94	4.26 7.39	4.38 8.03 11.81	2.30	2.65	2.19	2.19	2.14	2.92	2.72	10.35
Total, fixed cash expenses	50 21	5. y		9		v. c	- 0	× ×	9 (0 0
Gross value of production less cash expenses	21.61	0	0		0 0		5	ω,	0		30.78
Harvest-period price (dollars/bu.) 1.36 Yield (bu./planted acre) 54.57	1.36	177	1.55	1.1	0.85	1.32	27.07	1.47	1.05	1.17	1.19
Table 128Oats production economic costs and returns,	returns,	rther	ains	82-92							
1982	1982	198	-	1985	198	198	19		1990	1991	1992
Gross value of production (excluding direct Government payments): 74.08 Oats Straw Oats straw Total, gross value of production 80.82	74.08 6.74 80.82	59.06 6.27 65.33	70.24 7.24 77.48	44.31 8.03 52.34	42.90 42.90 6.71 49.61	63.11 53.24 66.35	72.03 5.59 77.62	54.99 5.18 60.17	56.01 4.59 60.60	1 000	79.02 4.36 83.38
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land	35.87 3.94 7.55 78.24 0.92 3.65 21.13	32.40 4.26 7.39 18.59 18.13	34.06 4.38 19.28 10.79 20.01	30.39 2.30 7.86 15.26 0.63 0.63 15.36	26.67 2.65 2.65 2.133 0.38 0.38	27.50 2.19 6.19 15.21 18.80	29.96 20.19 15.926 15.926 23.44 23.36	34.52 2.14 7.91 1.39 1.39	35.37 22.40 19.44 1.32 6.40 20.23	36.31 20.31 20.33 20.33 21.53	36.35 10.35 0.65 0.65 19.29
Unpaid Labor Total, economic costs	8.17				mw r	0 0	0 0		0 0		
Harvest-period price (dollars/bu.) 1.36 (bu./planted acre) 54.57	1.36	1.3	0 0	. []	0 [] 0 0	1.3	27.07	0 0 0		1.17	- 11

Barley Production Regions



Barley production economic costs per planted acre, 1992 ^{1/}



1/ Excluding government payments. 2/ Income foregone by allocating resources owned by the operation (operating and other nonland capital, land and unpaid labor) to barley production rather than some other income-producing use.

1982	1982	1983	19	1985	1986	1987	1988	1989	1990		1776
	11 11 11 11 11 11 11 11	11 11 11 11 11 11		Doc	rs per	lanted a	a				
Gross value of production (excluding direct Goverment payments): Barley Barley straw 1/ Total, gross value of production	114.07 3.58 117.65	116.99	115.52 3.75 119.27	83.46 3.58 87.04	68.92 2.31 71.23	80.00 2.28 82.28	79.87 3.47 83.34	115.21 3.55 118.76	106.99 3.27 110.26	106.93 2.82 109.75	126.34 4.38 130.72
Cash expenses: Seed Fertilizer, lime, and gypsum Chemicals Custom operations 2/ Fuel, lube, and electricity Repairs Hired labor Other variable cash expenses 3/	25.25 25.25 25.25 25.25 25.25 25.25 25.25	16.24 13.90 17.90	6.48 16.31 10.31 10.18 10.18 9.56 4.94 59.46	6.08 15.66 10.88 10.88 10.88 57.33	7.35 2.25 2.25 7.56 7.56 7.56 53.51	5.92 13.12 2.66 7.06 7.06 5.85 50.30	6.30 14.88 6.31 7.05 6.89 6.14 52.33	15.74 6.50 2.80 8.14 8.18 6.71 59.00	7.50 6.81 3.03 8.54 8.17 7.01 2.43	6.48 15.12 7.40 3.16 9.08 8.55 7.29 22.46 59.54	7.14 7.45 7.45 11.69 112.12 5.01 1.71
General farm overhead Taxes and insurance Interest	8.36 8.28 19.07 35.71			5.49 9.00 13.56 28.05	6.28 7.96 13.73 27.97	5.98 7.38 10.32 23.68	6.45 7.01 9.51 22.97	6.21 8.10 9.78 24.09	7.16 7.71 10.76 25.63	6.46 7.91 10.18 24.55	5.44 10.49 9.82 25.75
Total, cash expenses	100.38	102.71	102.63	85.94	81.48	73.98	75.01	83.09	83.42		67.06
Gross value of production less cash expenses	17.27	17.	0	1.10	-10.25	8.30	0 11	0	8	0 11	. 11
Harvest-period price (dollars/bu.) 2.13 Yield (bu./planted acre) 53.44 4	2.13	2.36	2.29	1 00 05 11	1.47	1.6	27.54	43.88	2.12	51.58	2.16 58.49 =======
Table 138U.S. barley production economic costs and retu	sts and re	rns, 1	82-92		1	11 11 11 11 11 11 11	11 10 11 11 11 11 11 11	11 11 11 11 11		11 11 11 11 11 11 11 11	11
I tem	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
	ii 84 11 88 88 81 81 81 81 81	() () () () () () () ()	13 11 16 10 11 11 11 11 11 11	Dol	lars p	anted	Je .				
Gross value of production (excluding direct Government payments): Barley Barley straw 1/ Total, gross value of production	114.07 3.58 117.65	116.99	3.75 119.27	83.46 3.58 87.04	68.92 2.31 71.23	80.00 2.28 82.28	79.87	115.21 3.55 118.76	106.99 3.27 110.26	106.93 2.82 109.75	126.34 4.38 130.72
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land Unpaid labor Total, economic costs	64.67 8.36 8.28 23.71 2.03 4.18 31.25 5.73 148.21	60.49 9.33 24.56 1.53 31.83 51.83 146.04	59.46 9.35 8.91 24.94 1.65 4.89 30.77 5.58 145.55	57.89 5.49 9.00 24.06 1.30 4.47 21.15 5.54 128.90	53.51 6.28 7.96 7.96 0.82 4.41 11.07 135.23		04080411	90-4W@W-4	K-L-00000	W400000000	24.74 24.66 24.66 1.16 1.16 1.16 1.15 1.15 1.15 1.15 1
Residual returns to management and risk	-30.56	-25.73	-26.28	-41.86	-64.00	-48.96	• 11	-38.67	• 11	0 15	• 11
Harvest-period price (dollars/bu.) 2.13 Yield (bu./planted acre) 53.44	2.13	2.3	2.29	1.8	1.47	1.69	27.54	2.63	2.12 50.48 ======	51.58	58.49

Table	Table 14ABarley production cash costs and returns, Northeast, 1	production	cash	costs 8	and r	eturns,	Northeast,	, 1982-92

Item 1982	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
Gross value of production				Do	Dollars per	planted	acre				
<pre>(excluding direct Government payments): Barley Barley straw 1/ Total, gross value of production</pre>	94.65 67.62 162.27	112.93 67.62 180.55	124.24 70.07 194.31	93.75 55.32 149.07	75.21 44.80 120.01	80.51 53.60 134.11	156.09 63.71 219.80	108.65 55.93 164.58	136.93 65.25 202.18	95.76 69.91 165.67	147.20
Cash expenses: Seed Fertilizer, lime, and gypsum	9.15			9.59	17.30	15.79	15.35	17.41	16.98		11.29
Chemicals Custom operations 2/ Fuel, lube, and electricity	0.18 13.55 73.75			0.19 6.98 11.90	2.66 7.27 6.42	2.66 6.93 6.65	2.70 7.96 7.00	2.83 7.87 7.83	2.98 9.26 9.03		2.84 7.23 7.23
Repairs Hired labor Other variable cash expenses 3/	8.62 21.92 8.252	8.83 7.93	8.38	8.45	10.29	9.72	11.62	12.09	12.28	13.28	10.4
General farm overhead Taxes and insurance Interest	5.36			11.42 22.19	5.65	5.52	5.85 22.16 4.05	5.67	23.84	24.82 24.82	5.01
Total, fixed cash expenses Total, cash expenses		43.94	119.04	52.74	31.96	30.68	32.06	33.42	34.98	35.14	19.85
	46.74	64.54	75.27	24.07	10.94	28.91	105.66	42.63	78.12	35.69	101.48
Harvest-period price (dollars/bu.) 1.96 Yield (bu./planted acre) 48.29 5	1.96	2.20	2.56 48.53	1.62.	1.35	1.53	2.58	1.95	2.15	1.71	1.93

Table 14B--Barley production economic costs and returns, Northeast, 1982-92

70KI	7961	1985	1784	1985	1986	1987	1988	1989	1990	1991	1992
Gross value of production				OO	Dollars per	planted	acre				11 11 10 11 11 11 11
<pre>(excluding direct Government payments) Barley Barley straw 1/ Total, gross value of production</pre>	94.65 67.62 162.27	112.93 67.62 180.55	124.24 70.07 194.31	93.75	75.21	80.51 53.60 134.11	156.09 63.71 219.80	108.65 55.93	136.93	95.76 69.91 165.67	147.20
Economic (full ownership) costs: Variable cash expenses	75.82			72.26	77.11	74.52	82.08	88.53	89.08	78.76	75.64
deneral raim Overmedo Taxes and insurance Capital replacement	19.28	20.69	20.89	22.19	20.50	20.71	22.16	23.58	23.84	24.82	11.33
Operating capital	1.65			1.10	0.0	2.38	3.01	3.79	3.45	2.68	1.35
Land Inhard I abor	31.45			29.17	26.50	29.63	33.39	34.75	31.88	30.82	19.66
Total, economic costs	173.52			182.12	173.48	174.82	192.99	207.69	209.05	217.98	156.26
Residual returns to management and risk	-11.25	4.80	9.95	-33.05	-53.47	-40.71	26.81	-43.11	-6.87	-52.31	40.71
Harvest-period price (dollars/bu.) Yield (bu./planted acre)	1.96	i rv	2.56	1.62 57.87	1.35	1.53	2.58	1.95	2.15	1.71	1.93

1991. 2/ Cost of custom operations and technical services. 3/ Cost of purchased irrigation water and baling.
Note: Survey base changed in 1986 and 1992. Northeast includes Virginia and Maryland in addition to Pennsylvania in 1992.

1982	1982	1983	1984	1985	- 1	1987	1988	1989	1990		2441
			14 11 14 14 14 11 11 11	llod	ars per	anted ac					
Gross value of production (excluding direct Government payments): Barley Barley straw 1/ Total, gross value of production	91.55 2.29 93.84	92.81 2.14 94.95	93.95 2.93 96.88	65.11 3.27 68.38	51.16	63.42	51.24 2.35 53.59	96.28 2.00 98.28	90.20	88.87 1.20 90.07	2.00 2.00 113.15
Cash expenses: Seed Fertilizer, lime, and gypsum	15.39		TU TU TU				57.00				
	7.56	88.00	7.93	1.53 8.27 7.46 4.15	1.95 3.94 6.29 4.36	2.01 5.88 7.23 7.23	7.26 7.33 1.09	6.83	5.97 6.76 5.02 1.13	6.39 7.07 5.34	11.53 3.94 0.88
Other variable cash expenses 3/	75.67		14		, .		7.				4 (
General farm overhead Taxes and insurance Interest	5.87 7.00 16.23 29.10	7.19 7.31 20.07 34.57	7.39 7.80 20.89 36.08	3.54 7.89 9.77 21.20	5.23 6.99 12.21 24.43	5.14 6.54 9.41 21.09	5.51 8.64 20.11	5.26 7.13 8.82 21.21	6.10 6.71 9.74 22.55	5.57 6.85 9.34 21.76	5.05 9.45 10.06 24.56
Total rach expenses	78.70	81.27	83.54	67.86	09.99	61.62	61.55	68.91	68.71	69.51	0.
Grass value of production less cash expenses	15.14	3.6	1	0	-14.05	3.13	0	29.37	23.04	• 11	• 11
Harvest-period price (dollars/bu.) 50.18	1.82	2.13	2.11	1.59	1.1	- M	3.04	2.54 37.88	1.93	1.89	56.42
	second returns	11	n Plains,	198					1 1 1 2 1 1	10 11 11 11 11 11	11
	1982	11	1984	1985	1986	1987	198	1989	1990	1991	
ויייייייייייייייייייייייייייייייייייייי	11 2 14 3 14 3 11 - 15 - 15 - 11	H H	11 11 11 11 11 11 11	00	llars per	planted	acre				
Gross value of production (excluding direct Goverment payments): Barley Barley straw 1/ Total, gross value of production	91.55 2.29 93.84	92.81 2.14 94.95	93.95 2.93 96.88	65.11 3.27 68.38	51.16	64.75	51.24 2.35 53.59	96.28 2.00 98.28	90.20	88.87 1.20 90.07	111.15 2.00 113.15
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance	49.60 5.87 7.00 7.00	46.70 7.19 7.31 23.05	47.44 7.39 7.80 23.06	46.66 3.54 7.89 22.37	42.07 5.23 6.99 22.80	40.53 5.14 6.54 22.02	41.44 5.51 5.96 20.19	47.70 5.26 7.13 25.69	46.16 6.10 6.71 25.52	47.75 5.57 6.85 26.69	51.49 5.05 23.05 23.05
Capital replacement Operating capital Other nonland capital	1.64					0 M 4		7220		29.98	win's
Land Unpaid labor Total economic costs	123.91				0 0		, <u> </u>	2.0	134.58	138.35	5.5
Residual returns to management and risk	-30.07	N- 1		-40.86	-63.35	-48.62	75	0		p 11	-26.43
Harvest-period price (dollars/bu.) 50.18	1.82	2.13	2.1	41.08	43.2	FM I	3.04	37.88	1.93	46.91	56.42

1982	1982	1983	1984	1985	3,00	1907	36	100			
			116666				10 10 10 10 10 10 10 10 10 10 10 10 10 1				
	11 10 11 11 11 11 11			1100	ars per	ted a	cre				
Gross value of production (excluding direct Goverment payments): Barley Barley straw 1/ Total, gross value of production	149.40	163.42 4.38 167.80	152.99 4.46 157.45	115.73 3.43 119.16	116.33 3.54 119.87	138.57 3.53 142.10	161.33 4.84 166.17	173.62 5.48 179.10	167.61 6.34 173.95	180.40 4.94 185.34	177.30 3.82 181.12
Cash expenses: Seed Fertilizer, lime, and gypsum Chemicals Custom operations 2/ Fuel, lube, and electricity Repairs Hired labor Other variable cash expenses 3/	20.87 6.82 3.97 15.23 12.87 3.57	7.21 7.33 7.33 7.33 15.01 15.49 6.61 3.58	19.37 13.37 13.29 13.29 14.65 14.65	7.59 18.44 12.59 12.58 12.58 12.58 12.58 12.58	10.41 8.81 3.87 15.27 11.65 10.88 84.50	9.43 16.78 8.74 4.26 15.80 11.10 6.01	17.38 8.84 4.13 12.65 11.47 11.47 86.35	11.07 19.82 4.83 18.17 13.33 12.65 95.72	10.52 20.70 9.60 5.29 13.92 13.83 7.06	10.40 20.16 10.43 5.44 18.98 14.56 13.71 7.14	11.86 25.04 13.67 6.06 24.67 14.79 7.90 3.90
General farm overhead Taxes and insurance Interest	11.26 9.32 22.08 42.66			9.06 11.08 20.50 40.64	9.35 9.45 18.07 36.87	9.14 9.22 13.88 32.24	9.83 9.28 12.81 31.92	9.63 9.89 13.37 32.89	11.26 9.89 14.89 36.04	9.40 10.36 13.81 33.57	6.22 12.45 11.73 30.40
Total, They expenses	119.66	129.61	130.68	113.37	121.37	116.20	118.07	128.61	135.30	134.39	138.29
Gross value of production less cash expenses	34.38	K	26.77	5.79	5	25.90	48.10	• 11	38.65	• 11	• 11
Harvest-period price (dollars/bu.) 2.58	2.58	2.61 62.58	2.39	2.22	2.05	2.16	1.6.1	63.68	2.55	2.60 69.36	2.76
Table 168Rarlev production economic costs an	======== d return	Non	st, 1982	-92	1			13 04 10 03 03 01 01	01 11 02 11 11 11 11 11	ii 14 14 14 16 10 11	1) 1) 1) 1) 1) 1) 1)
1982	1982	11	11 0	1985	198	1 - 1	1988	98 !!	1990	1991	1992
	11 11 11 11 11 11 11	15 16 10 11 11 15 11 11	() () () () () () () () () () () () () (00	lars per	planted a	cre				
Gross value of production (excluding direct Government payments): Barley Barley straw 1/ Total, gross value of production	149.40 4.64 154.04	163.42 4.38 167.80	152.99	115.73 3.43 119.16	116.33 3.54 119.87	138.57 3.53 142.10	161.33 4.84 166.17	173.62 5.48 179.10	167.61 6.34 173.95	180.40 4.94 185.34	177.30 3.82 181.12
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Land	77.00 11.26 26.32 26.88 2.09 2.09 37.56	76.71 12.31 9.99 28.37 1.64 4.39 41.03	75.37 12.58 10.63 29.40 1.80 5.58 38.65 6.83	72.73 9.06 11.08 27.96 1.41 5.05 6.90	84.50 9.35 31.17 1.46 35.62 11.16	31.69	86.15 9.28 33.70 1.89 6.97 6.97 11.13	95.72 9.63 9.63 36.12 26.12 55.18 55.18	99.26 11.26 9.89 37.88 2.33 10.34 511.46 12.87	100.82 10.36 10.36 12.63 12.64 12.95 12.95	107.89 6.22 12.45 30.95 11.93 10.06
Total, economic costs	175.46				188.54	195.04	-42.33		i w		
Residual returns to management and tisk ===================================	2.58	16	1 0	1100	2.05	2.16	2.70	2.73	2.55	2.60	2.76

Table 17A--Barley production cash costs and returns, Southwest, 1992

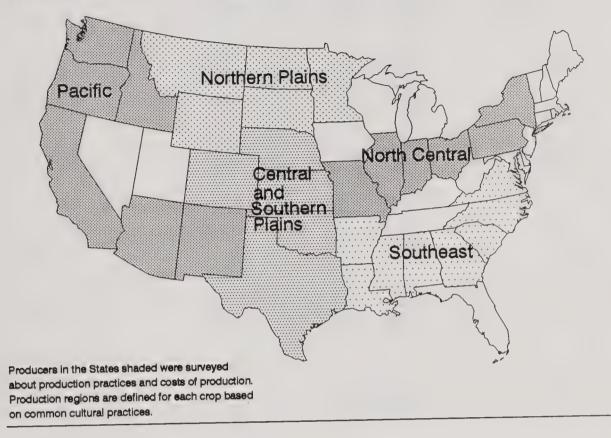
Southwest, 1992	
	========
Item	1992
	Dollars per
	planted acre
Gross value of production	
(excluding direct Government payments):	
Barley	136.83
Barley straw 1/	6.32
Total, gross value of production	143.15
iotat, gross value or production	143.13
Oach amanage	
Cash expenses:	40.77
Seed	10.37
Fertilizer, lime, and gypsum	12.66
Chemicals	6.12
Custom operations 2/	9.76
Fuel, lube, and electricity	18.80
Repairs	12.04
Hired labor	8.79
Other variable cash expenses 3/	4.80
Total, variable cash expenses	83.34
General farm overhead	7.70
Taxes and insurance	15.93
Interest	5.46
Total, fixed cash expenses	29.09
Total, Tixed cash expenses	27.07
Total cosh synamos	112.43
Total, cash expenses	112.43
Constitution of annihilation land and annihilation	70 70
Gross value of production less cash expenses	
Harvest-period price (dollars/bu.)	2.49
Yield (bu./planted acre)	54.95
	=======

Table 17B--Barley production economic costs and returns, Southwest, 1992

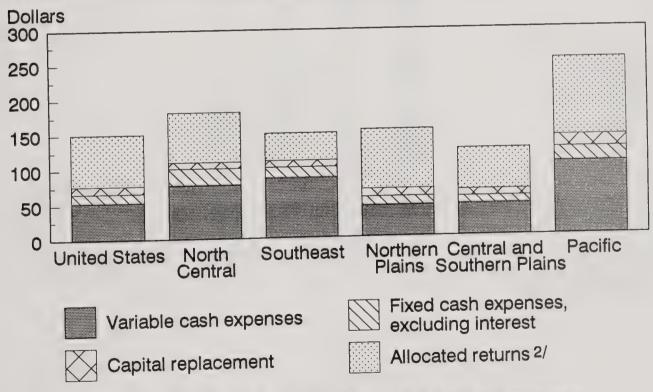
Item	1982
	Dollars per planted acre
Gross value of production (excluding direct Government payments): Barley Barley straw 1/ Total, gross value of production	136.83 6.32 143.15
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land Unpaid labor Total, economic costs	83.34 7.70 15.93 27.72 1.49 12.43 44.68 9.19 202.48
Residual returns to management and risk	-59.33
Harvest-period price (dollars/bu.) Yield (bu./planted acre)	2.49 54.95

^{1/} Includes value of barley grazing in Southwest after 1991.
2/ Cost of custom operations and technical services.
3/ Cost of purchased irrigation water and baling.
Note: Survey base is 1992.

Wheat Production Regions



Wheat economic costs per planted acre, 1992 1/



1/ Excluding government payments. 2/ Income foregone by allocating resources owned by the operation (operating and other nonland capital, land, and unpaid labor) to wheat production rather than some other income-producing use.

Table 18A--U.S. Wheat production cash costs and returns, 1989-92

Item	1989	1990	1991	1992
	=======	Dollars p		
Gross value of production				
(excluding direct Government payments):	99.90	94.27	72.68	112.12
Wheat	,,,,,	1.52	1.21	1.37
Wheat straw	3.45	95.79	73.89	113.49
Total, gross value of production	103.35	Y2.14	13.09	113.47
Cash expenses:	7 (0	7.69	5.87	6.67
Seed	7.68		15.30	14.46
Fertilizer, lime, and gypsum	16.70	14.59	5.73	6.15
Chemicals	5.02	5.45	4.25	4.24
Custom operations 1/	4.11	4.56		8.81
Fuel, lube, and electricity	7.96	8.72	8.96	
Repairs	6.39	6.51	6.70	7.22
Hired labor	4.95	4.92	5.34	5.52
Other variable cash expenses 2/	0.20	0.20	0.18	0.20
Total, variable cash expenses	53.01	52.64	52.33	53.27
General farm overhead	5.01	6.47	5.15	4.97
Taxes and insurance	8.72	10.28	8.88	8.07
	8.77	9.56	9.12	7.77
Interest Total, fixed cash expenses	22.50	26.31	23.15	20.81
Total, cash expenses	75.51	78.95	75.48	74.08
Gross value of production less cash expenses	27.84	16.84	-1.59	39.41
	3.81	2.78	2.57	3.32
Harvest-period price (dollars/bu.)	26.22	33.91	28.28	33.77
Yield (bu./planted acre)	20.22	22.71		=======

Table 18B--U.S. Wheat production economic costs and returns, 1989-92

The management of the manageme	1989	1990	1991	1992
Item	======	=======	=======	=======
		Dollars p	er plante	d acre
Gross value of production (excluding direct Government payments): Wheat Wheat straw Total, gross value of production	99.90 3.45 103.35	94.27 1.52 95.79	72.68 1.21 73.89	112.12 1.37 113.49
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land Unpaid labor Total, economic costs	53.01 5.01 8.72 9.66 2.12 9.67 47.57 8.67 144.43	52.64 6.47 10.28 9.89 1.97 10.67 46.33 11.24 149.49	52.33 5.15 8.88 10.60 1.42 12.18 33.92 9.48 133.96	53.27 4.97 8.07 10.93 0.95 13.30 49.18 10.00 150.67
Residual returns to management and risk	-41.08	-53.70	-60.07	-37.18
Harvest-period price (dollars/bu.) Yield (bu./planted acre)	3.81 26.22	2.78 33.91	2.57 28.28	3.32 33.77

^{1/} Cost of custom operations and technical services.
2/ Cost of purchased irrigation water.
Note: Survey base changed in 1989.

Table 19A--Wheat production cash costs and returns, North Central, 1989-92

Item	1989	1990	1991	1992
		Dollars	per plante	ed acre
Gross value of production				
(excluding direct Government payments):				
Wheat	198.67	132.39	82.15	138.98
Wheat straw	13.51	12.15	10.77	14.11
Total, gross value of production	212.18	144.54	92.92	153.09
Cash expenses:				
Seed	13.47	13.43	11.94	12.86
Fertilizer, lime, and gypsum	44.99	36.76	42.44	40.71
Chemicals	2.36	2.33	2.73	2.96
Custom operations 1/	5.40	5.59	5.72	5.91
Fuel, lube, and electricity	6.02	5.05	6.81	6.68
Repairs	4.18	3.18	4.56	4.76
Hired labor	3.46	3.11	3.72	3.96
Total, variable cash expenses	79.88	69.45	77.92	77.84
General farm overhead	8.12	7.38	8.42	8.22
Taxes and insurance	13.71	15.20	15.66	15.17
Interest	13.24	14.64	13.84	11.62
Total, fixed cash expenses	35.07	37.22	37.92	35.01
Total, cash expenses	114.95	106.67	115.84	112.85
Gross value of production less cash expenses	97.23	37.86	-22.92	40.24
Harvest-period price (dollars/bu.)	3.75	2.90	2.45	3.27
Yield (bu./planted acre)	52.98	45.65	33.53	42.50

Table 19B--Wheat production economic costs and returns, North Central, 1989-92

Item	1989	1990	1991	1992
######################################		Dollars pe	r planted	acre
Gross value of production				
(excluding direct Government payments):				
Wheat	198.67	132.39	82.15	138.98
Wheat straw	13.51	12.15	10.77	14.11
Total, gross value of production	212.18	144.54	92.92	153.09
Economic (full ownership) costs:				
Variable cash expenses	79.88	69.45	77.92	77.84
General farm overhead	8.12	7.38	8.42	8.22
Taxes and insurance	13.71	15.20	15.66	15.17
Capital replacement	8.23	5.63	8.97	9.31
Operating capital	3.21	2.59	2.12	1.39
Other nonland capital	11.76	10.08	14.81	16.16
Land	59.52	33.75	13.87	35.19
Unpaid labor	15.97	15.20	18.06	18.75
Total, economic costs	200.40	159.28	159.83	182.03
Residual returns to management and risk	11.78	-14.75	-66.91	-28.94
	========	========		7 27
Harvest-period price (dollars/bu.)	3.75	2.90	2.45	3.27
Yield (bu./planted acre)	52.98 	45.65 =======	33.53 =======	42.50

^{1/} Cost of custom operations and technical services. Note: Survey base changed in 1989.

Table 20A--Wheat production cash costs and returns, Southeast, 1989-92

Item	1989	1990	1991	1992 ======
	=======================================	ollars p	er plante	d acre
cross value of production				
(excluding direct Government payments)	137.69	96.56	59.98	134.91
Wheat	1.53	1.53	1.43	1.76
Wheat straw Total, gross value of production	139.22	98.09	61.41	136.67
Cash expenses:	13.27	13.56	12.73	13.41
Seed	36.67	33.34	32.89	34.45
Fertilizer, lime, and gypsum	5.72	6.42	6.73	7.55
Chemicals	7.73	8.92	7.84	7.81
Custom operations 1/	6.38	6.90	7.13	7.05
Fuel, lube, and electricity	5.81	5.43	6.36	6.60
Repairs	8.04	8.21	9.18	9.84
Hired labor Total, variable cash expenses	83.62	82.78	82.86	86.71
	6.43	6.54	6.84	6.72
General farm overhead	8.51	14.72	8.33	8.25
Taxes and insurance	9.66	10.24	9.66	8.17
Interest Total, fixed cash expenses	24.60	31.50	24.83	23.14
Total, cash expenses	108.22	114.28	107.69	109.85
Gross value of production less cash expenses	31.00	-16.19	-46.28	26.82
	3.66	3.12	2.49	3.24
Harvest-period price (dollars/bu.)	37.62	30.95	24.09	41.64
Yield (bu./planted acre)	37.02	=======	=======	======

Item	1989	1990	1991	1992
	=========	Dollars p	er plante	ed acre
Gross value of production (excluding direct Government payments) Wheat Wheat straw Total, gross value of production Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land Unpaid labor Total, economic costs	137.69 1.53 139.22 83.62 6.43 8.51 8.83 3.36 8.37 16.85 7.33 143.30	96.56 1.53 98.09 82.78 6.54 14.72 8.17 3.09 9.06 13.63 7.70 145.69	59.98 1.43 61.41 82.86 6.84 8.33 9.68 2.25 10.61 10.88 8.42 139.87	134.91 1.76 136.67 86.71 6.72 8.25 10.06 1.55 11.52 16.98 9.07 150.86
Residual returns to management and risk	-4.08	-47.60	-78.46 =======	-14.19
Harvest-period price (dollars/bu.) Yield (bu./planted acre)	3.66 37.62	3.12 30.95	2.49 24.09	3.24 41.64

^{1/} Cost of custom operations and technical services. Note: Survey base changed in 1989.

Table 21A--Wheat production cash costs and returns, Northern Plains, 1989-92

I tem	1989	1990	1991	1992
===================================	=======		per plant	
Gross value of production				
(excluding direct Government payments):				
Wheat	93.95	83.46	74.67	117.81
Wheat straw	0.83	0.84	0.53	0.61
Total, gross value of production	94.78	84.30	75.20	118.42
Cash expenses:				
Seed	7.47	7.24	4.91	6.40
Fertilizer, lime and gypsum	10.84	9.16	9.95	9.74
Chemicals	6.40	6.88	7.31	7.76
Custom operations 1/	2.54	2.78	2.63	2.68
Fuel, lube, and electricity	7.00	8.15	7.90	7.66
Repairs	6.35	6.83	6.91	7.08
Hired labor	3.58	3.51	3.77	3.96
Other variable cash expenses 2/	0.01	0.01	0.01	0.01
Total, variable cash expenses	44.19	44.56	43.39	45.29
General farm overhead	4.97	6.57	5.10	4.93
Taxes and insurance	8.65	9.98	8.15	7.73
Interest	9.97	10.91	10.42	8.84
Total, fixed cash expenses	23.59	27.46	23.67	21.50
Total, cash expenses	67.78	72.02	67.06	66.79
Gross value of production less cash expenses	27.00	12.28	8.14	51.63
Harvest-period price (dollars/bu.)	3.67	2.55	2.47	3.30
Yield (bu./planted acre)	25.60	32.73	30.23	35.70

Table 21B--Wheat production economic costs and returns, Northern Plains, 1989-92

Item	1989	1990	1991	1992
		Dollars	per plante	ed acre
Gross value of production				
(excluding direct Government payments):	07.05	07 //	7/ /7	447 04
Wheat	93.95	83.46	74.67	117.81
Wheat straw	0.83	0.84	0.53	0.61
Total, gross value of production	94.78	84.30	75.20	118.42
Economic (full ownership) costs:				45.00
Variable cash expenses	44.19	44.56	43.39	45.29
General farm overhead	4.97	6.57	5.10	4.93
Taxes and insurance	8.65	9.98		7.73
Capital replacement	9.79	11.24		10.97
Operating capital	1.78	1.66	1.18	0.81
Other nonland capital	10.27	11.75		14.05
Land	54.25	49.00		59.66
Unpaid labor	9.63	9.76	10.52	11.33
Total, economic costs	143.53	144.52	138.85	154.77
Residual returns to management and risk	-48.75	-60.22	-63.65	-36.35
Harvest-period price (dollars/bu.)	3.67	2.55	2.47	3.30
Yield (bu./planted acre)	25.60	32.73	30.23	35.70

^{1/} Cost of custom operations and technical services. 2/ Cost of purchased irrigation water. Note: Survey base changed in 1989.

Table 22A--Wheat production cash costs and returns, Central and Southern Plains, 1989-92

1989-92		========	=======	======
::::::::::::::::::::::::::::::::::::::	1989	1990	1991	1992
	=======	Dollars p	er plante	d acre
Gross value of production				
(excluding direct Government payments): Wheat Wheat straw Total, gross value of production	93.03 0.49 93.52	82.48 0.37 82.85	60.14 0.39 60.53	84.04 0.35 84.39
Cash expenses:	5.63 13.05	5.81 11.24	4.43 11.66	4.87
Fertilizer, lime, and gypsum Chemicals Custom operations 1/	2.80 4.52 7.73	3.06 5.03 8.36	3.19 4.76 8.73	3.35 4.82 8.55
Fuel, lube, and electricity Repairs Hired labor	6.61	6.49	7.21 4.85	7.48 5.09
Other variable cash expenses 2/ Total, variable cash expenses	0.05	0.04 44.52	0.05 44.88	0.05 45.91
General farm overhead Taxes and insurance	3.45 7.86	5.25 8.97	3.60 8.21	
Interest Total, fixed cash expenses	5.96 17.27	6.56 20.78	6.32	5.45 16.08
Total, cash expenses	62.16	65.30	63.01	61.99
Gross value of production less cash expensess	31.36	17.55	-2.48 =======	22.40
Harvest-period price (dollars/bu.) Yield (bu./planted acre)	3.86 24.10	2.88 28.64	2.51 23.96	3.22 26.10

Table 22B--Wheat production economic costs and returns, Central and Southern Plains, 1989-92

Southern Planis, 1707 72		=====	=======	=======
1 tem	1989	1990	1991	1992
	:=======	Dollars	per plant	ed acre
Gross value of production (excluding direct Government payments): Wheat Wheat straw Total, gross value of production	93.03 0.49 93.52	82.48 0.37 82.85	60.14 0.39 60.53	84.04 0.35 84.39
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land Unpaid labor Total, economic costs	44.89 3.45 7.86 8.88 1.80 8.92 36.44 6.44 118.68	44.52 5.25 8.97 8.99 1.66 9.80 41.13 11.91 132.23	44.88 3.60 8.21 9.70 1.22 11.24 26.57 6.95 112.37	45.91 3.54 7.09 10.08 0.82 12.30 38.65 7.13 125.52
Residual returns to management and risk	-25.16	-49.38	-51.84 =======	-41.13 ======
Harvest-period price (dollars/bu.) Yield (bu./planted acre)	3.86 24.10	2.88 28.64	2.51 23.96	3.22 26.10

^{1/} Cost of custom operations and technical services.
2/ Cost of purchased irrigation water.
Note: Survey base changed in 1989.

Table 23A--Wheat production cash costs and returns, Pacific, 1989-92

I tem	1989	1990	1991	1992
	=======		per plante	
Gross value of production				
(excluding direct Government payments):	040.07	404.00	440.50	400.40
Wheat	219.97	186.82	119.52	189.12
Wheat straw	1.11	1.20	1.14	1.30
Total, gross value of production	221.08	188.02	120.66	190.42
Cash expenses:		*		
Seed	11.84	11.84	9.69	10.79
Fertilizer, lime, and gypsum	28.16	28.33	28.16	26.10
Chemicals	13.33	15.89	14.75	16.09
Custom operations 1/	5.77	6.95	5.27	6.17
Fuel, lube, and electricity	16.83	19.62		19.12
Repairs	7.66	9.29	8.38	8.70
Hired labor	13.62	14.97	13.91	
Other variable cash expenses 2/	2.30	2.53	1.83	2.31
Total, variable cash expenses	99.51	109.42	99.13	104.96
General farm overhead	10.22	12.79	10.52	10.35
Taxes and insurance	9.81	11.77	10.65	10.07
Interest	14.26	15.65	15.13	12.66
Total, fixed cash expenses	34.29	40.21	36.30	33.08
Total, cash expenses	133.80	149.63	135.43	138.04
Gross value of production less cash expenses	87.28	38.39		52.38
Harvest-period price (dollars/bu.)	4.12	2.92		3.67
Yield (bu./planted acre)	53.39	63.98		51.53
	=======	=======	=======	

Table 23B--Wheat production economic costs and returns, Pacific, 1989-92

Item	1989	1990	1991	1992
		Dollars	per plante	ed acre
Gross value of production (excluding direct Government payments): Wheat Wheat straw Total, gross value of production	219.97	186.82	119.52	189.12
	1.11	1.20	1.14	1.30
	221.08	188.02	120.66	190.42
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land Unpaid labor Total, economic costs	99.51	109.42	99.13	104.96
	10.22	12.79	10.52	10.35
	9.81	11.77	10.65	10.07
	15.43	14.36	16.89	17.53
	4.00	4.09	2.70	1.87
	10.11	12.26	12.77	13.86
	90.48	84.05	46.39	82.47
	11.54	13.25	12.88	13.51
	251.10	261.99	211.93	254.62
Residual returns to management and risk	-30.02	-73.97	-91.27	-64.20
Harvest-period price (dollars/bu.)	4.12	2.92	3.06	3.67
Yield (bu./planted acre)	53.39	63.98	39.06	51.53

^{1/} Cost of custom operations and technical services.
2/ Cost of purchased irrigation water.
Note: Survey base changed in 1989.

Soybean Production Regions

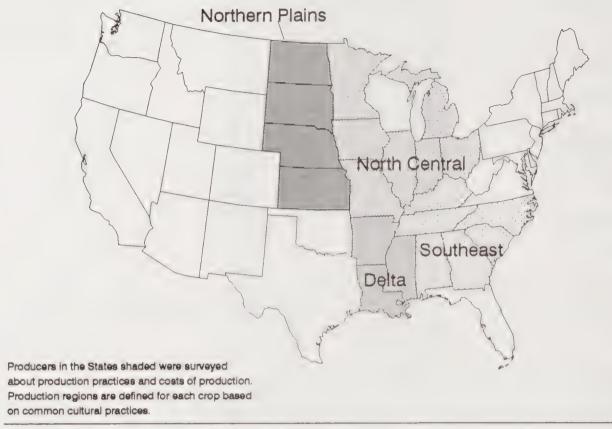
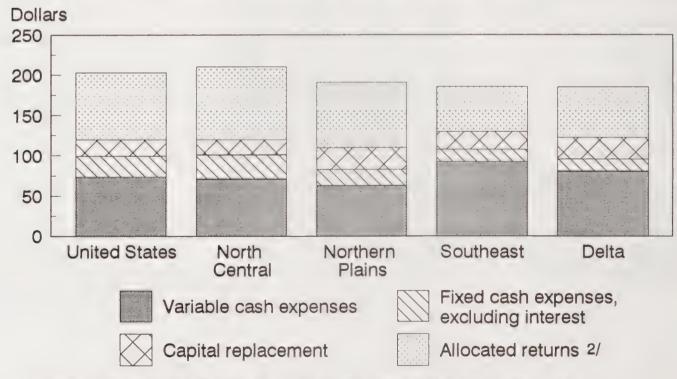


Figure 17

Soybean economic costs per planted acre, 1992 1/



1/ Excluding government payments. 2/ Income foregone by allocating resources owned by the operation (operating and other nonpaid capital, land, and unpaid labor) to soybean production rather than some other income-producing use.

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1982	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
Groce value of production.				Dol	lars per	planted	асге				
Soybeans Total, gross value of production	160.67	204.47	166.62	166.07	150.54	171.52	201.50	175.63	193.64	183.81	193.36
Cash expenses: Seed	8.52		10.97	12.92	10.82	11.16	12.01	15.04		12.89	12,46
Fertilizer, lime, and gypsum Chemicals	9.46		19.89	6.18	5,35	12.29	15.61	10.66		9.34	9.39
Custom operations 1/	4.01		4.03	4.06	4.06	4.05	4.05	3.50		3.66	3.8
Fuel, lube, and electricity Repairs	11.81		8.42	11.62	7.39	8.97	9.12	8.27		9.49	8.46
Hired Labor Other variable cash expenses 2/ Total variable cash expenses	2.39	50.34	0.36	2.45	00.00 00	0.00	2000	89.0.	8.20	20.07	10.6
ממנים במסו במסו בארים במסו	2	0.40	00	00.00	47.00	/o°nc	04.13	(7.17		16.10	13.32
General farm overhead 8.79 10.43 Taxes and insurance 10.57 11.18	10.57	11.18	11.94	12.85	7.87	13.94	12.44	16.25	15.63	9.25	8.78
interest Total, fixed cash expenses	46.51	54.18	56.57	40.02	39.49	43.77	19.20	12.08 37.28	37.21	15.54	12.76 38.64
Total, cash expenses	107.89	113.79	117.62	04.70	88.57	94.53	100.16	108.53	106.90	114.69	111.96
Gross value of production less cash expenses	52.75	29.06	49.10	92.69	62.07	77.13	101.33	67.10	86.73	69.12	81.40
Harvest-period price (dollars/bu.) Yield (bu./planted acre)	5.13	7.95	6.05	4.86	4.57	5.07	7.53	5.53	5.85	5.49	5.25

Table 248--U.S. soybean production economic costs and returns, 1982-92

		· · · · · · · · · · · · · · · · · · ·		1701	1,400	1707	1990	1561	1992
		Dol	llars per	planted	асге				
160.67 204.47 160.67 204.47	7 166.62 7 166.62	166.07	150.54	171.52	201.50	175.63	193.64	183.81	193.36
			49.08	50.76	54.13	71.24	69.69	72.76	73.32
			13.46	13.94	14.39	16.25	15.63	17.14	17.10
			31.48	31.84	34.13	17.94	18.59	19.30	20.71
			1.08	1.24	1.51	2.86	2.60	1.98	1.31
			5.07	5.05	6.36	12.27	8.98	10.48	11.79
			43.63	45.56	52.22	69.95	78.86	47.32	50.72
			9.53	9.86	10.54	16.06	16.96	18.40	19.29
			161.20	169.06	185.72	192.26	190.54	196.63	203.02
	55 -9.76	-4.11	-10.56	2.60	15.77	-16.63	3.09	-12.82	-9.66
		4.86	75.7	5.07	7.53	5.53	5.85	5.49	5.25
20.1-00004: 14 00 11 1-114 11		24.50 24.50 3.50 83.81 83.81 83.81 83.81 83.81 83.81	10.43 10.83 11.18 11.94 24.50 24.17 3.50 24.17 8.346 52.71 8.92 8.94 83.81 176.48 1 20.65 -9.76	10.43 10.81 6.85 24.50 24.17 29.60 2.21 2.54 1.72 3.50 4.32 4.99 63.46 52.71 48.16 83.81 176.48 170.07 1 20.65 -9.76 -4.11 -	10.43 10.81 6.85 7.87 11.18 11.94 12.85 13.46 13.46 13.50 24.17 29.60 31.48 3.50 4.32 4.99 5.07 6.32 4.89 8.34 176.48 170.07 161.20 16 20.65 -9.76 -4.11 -10.56 25.72 27.54 34.17 32.94 32.57 25.75 34.17 32.94 32.57 25.54 34.17 32.94 32.57 32.94 32.94 32.94 32.94 32.94	10.43 10.81 6.85 7.87 10.81 11.18 11.94 12.85 13.46 13.94 24.50 24.17 29.60 31.48 31.84 3.50 4.32 4.99 5.07 5.05 8.94 5.27 48.16 43.63 45.56 8.92 9.22 9.53 9.86 83.81 176.48 170.07 161.20 169.06 1 20.65 -9.76 -4.11 -10.56 2.60 7.95 6.05 4.86 4.57 5.07 27.75 27.54 34.17 32.94 33.83	10.43 10.81 6.85 7.87 10.81 12.44 11.18 11.94 12.85 13.46 13.94 14.39 24.50 24.17 29.60 31.48 31.84 34.13 3.50 24.17 29.60 31.48 31.84 34.13 3.50 24.17 29.60 31.48 31.84 1.51 3.50 24.17 29.60 31.48 31.84 1.51 3.50 4.32 4.99 5.07 5.05 6.36 83.41 176.48 170.07 161.20 169.06 185.72 1 20.65 -9.76 -4.11 -10.56 2.60 15.77 -7.55 25.72 27.54 34.17 32.94 33.83 26.76	10.43 10.81 6.85 7.87 10.81 12.44 8.95 11.18 11.94 12.85 13.46 13.94 14.39 16.25 24.50 24.17 29.60 31.48 31.84 34.13 17.94 3.50 4.32 4.99 5.07 5.05 6.36 12.27 8.92 8.94 9.22 9.53 45.65 52.22 46.69 6 83.81 176.48 170.07 161.20 169.06 185.72 192.26 19 20.65 -9.76 -4.11 -10.56 2.60 15.77 -16.63 25.72 27.54 34.17 32.94 33.83 26.76 31.76	10.43 10.81 6.85 7.87 10.81 12.44 8.95 8.23 11.18 11.94 12.85 13.46 13.94 14.39 16.25 15.63 24.50 24.17 29.60 31.48 31.84 34.13 17.94 18.59 2.21 2.54 1.72 1.08 1.24 1.51 2.86 2.60 3.50 4.32 4.99 5.07 5.05 6.36 12.27 8.98 8.34 5.07 5.07 5.05 6.36 16.96 16.96 8.38 17.64 8.70 16.26 16.96 16.96 83.81 176.48 170.07 161.20 169.06 185.72 192.26 190.54 10.65 -9.76 -4.11 -10.56 2.60 15.77 -16.63 3.09 7.95 6.05 4.86 4.57 5.07 7.53 5.85 25.72 27.54 34.17 32.94 33.83 26.76 31.76 33.10

1/ Cost of custom operations and technical services. 2/ Cost of purchased irrigation water. Note: Survey base changed in 1985 and 1989.

1982 19	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	2661
**************************************	01 16 10 11 11 11 11 11	11 11 10 10 11 11 11		Dol	Dollars per	planted a	acre				
Gross value of production: Soybeans Total, gross value of production	178.97	239.78	183.19	183.59	170.58	190.40	207.05	199.55	220.65	199.10	206.19
Cash expenses: Seed Fertilizer, lime, and gypsum	9.25	8.54	7.57	13.82	11.27	11.58	12.60 5.11	16.64 9.02 20.52	13.52 8.39 21.51	13.89 8.64 23.57	13.30
Chemicals Custom operations 1/ Fuel, lube, and electricity	3.09	10.04	31.6	11.35	7.42	4.17 8.85 6.31	4.15 9.03 7.00	3.93 7.15 8.00	3.97 7.82 8.00	88.204	7.27
Repairs Hired labor Other variable cash expenses 2/	26.031	2.26	2.28 0.28 58.05	2.38	2.50	2.59	2.80 0.00 53.47	3.82 0.02 69.10	0.03	71.03	71.04
General farm overhead Taxes and insurance Interest	10.21	12.57	15.89	7.21 15.19 23.09 45.49	8.59 15.64 20.96 45.19	12.17	13.20 16.59 21.77 51.56	9.92 19.08 14.24 43.24	9.22 19.02 15.60 43.84	10.23 20.32 17.84 48.39	9.72 20.26 14.65 44.63
Total, fixed cash expenses	110.46		8 0	101.06		100.20	105.03	112.34	111.14	119.42	115.67
Gross value of production less cash expenses	68.59	115.53		82.44	76.65	90.24	102.09	87.21	109.51	79.68	90.52
Harvest-period price (dollars/bu.) 5.05	5.05	7.99	11 11 11	4.83	4.52	5.00	7.54 27.46	5.52	5.87	5.50	39.35

				1111111111	11111111111						
1 tem	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
	11 11 13 11 11 11 11 11 11	86 11 14 14 10 10 11 11 11	15 11 11 12 13 14 11 11 11	Doll	lars per	planted a	acre				
Gross value of production: Soybeans Total, gross value of production	178.97	239.78	183.19	183.59	170.58	190.40	207.05	199.55	220.65	199.10	206.19
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Land Unpaid labor Total, economic costs Residual returns to management and risk	- ' ii ii ii	2 -	58.05 12.89 15.60 26.33 2.29 4.72 67.04 8.57 195.49	55.57 15.19 31.01 1.63 5.18 57.62 8.96 182.37 1.13	48.59 8.59 15.64 33.45 1.03 5.32 5.32 5.32 5.32 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03	50.26 12.17 13.40 33.40 1.19 5.22 53.20 9.73 181.16	53.47 15.59 16.59 35.93 1.44 6.61 58.69 10.53 196.46	69.10 9.92 19.08 16.61 2.78 11.91 16.92 201.10 -1.55	67.30 9.22 19.02 17.20 2.51 8.91 58.78 17.85 200.79	71.03 10.23 20.32 17.58 11.93 10.23 53.45 204.35 204.35 -5.23	71.04 9.72 20.26 18.73 11.27 11.27 20.47 20.47 210.27 -4.08
Harvest-period price (dollars/bu.) Yield (bu./planted acre)	35.44	30.01	30.33	38.01	37.74	38.08	27.46	56.15	YC. /C	30.00	

1/ Cost of custom operations and technical services. 2/ Co Note: Survey base changed in 1985 and 1989.

Table 26ASoybean production cash costs and	returns,	Northern	Plains,	1989-92
Item	1989	1990	1991	1772
Gross value of production:		Doctars	ber brai	ited acre
Soybeans	145.94	166.20	153.08	167.33
Total, gross value of production	145.94		153.08	
Cash expenses:				
Seed	13.85	11.54	12.24	12.04
Fertilizer, lime, and gypsum	3.04	2.61	2.82	2.77
Chemicals	15.65	16.46	17.96	19.09
Custom operations 1/	2.39	2.47	2.41	2.40
Fuel, lube, and electricity	10.42	11.35	11.61	10.60
Repairs	9.30	9.26	9.54	10.27
Hired labor	5.02	5.05	4.79	5.31
Other variable cash expenses 2/	0.20	0.19	0.19	0.19
Total, variable cash expenses	59.87	58.93	61.56	62.67
General farm overhead	8.22	7.11	7.77	7.37
Taxes and insurance	14.20	12.04	12.68	12.82
Interest	11.69	12.65	14.36	11.77
Total, fixed cash expenses	34.11	31.80	34.81	31.96
Total, cash expenses	93.98	90.73	96.37	94.63
Gross value of production less cash expenses	51.96	75.47	56.71	72.70
Harvest-period price (dollars/bu.)	5.28	5.68	5.33	5.04
Yield (bu./planted acre)	27.64		28.72	

Table 26BSoybean	production	economic	costs	and	returns,	Northern Plains,	1989-92

Item	1989	1990	1991	1992
		Dollars	per plante	ed acre
Gross value of production:	145.94	166.20	153.08	167.33
Soybeans Total, gross value of production	145.94	166.20	153.08	167.33
rocac, gross variation production				
Economic (full ownership) costs:				
Variable cash expenses	59.87	58.93	61.56	62.67
General farm overhead	8.22	7.11	7.77	7.37
Taxes and insurance	14.20	12.04	12.68	12.82
Capital replacement	23.49	24.30	24.90	26.81
Operating capital	2.41	2.20	1.67	1.12
Other nonland capital	14.82	10.19	11.68	13.21
Land	44.67	47.88	43.43	46.34
Unpaid labor	19.24	19.48	18.91	20.78
Total, economic costs	186.92	182.13	182.60	191.12
Residual returns to management and risk	-40.98	-15.93	-29.52	-23.79
Hamvest-period price (dollars/by)	5.28	5.68	5.33	5.04
Harvest-period price (dollars/bu.) Yield (bu./planted acre)	27.64	29.26	28.72	33.20
**************************************	=======	=======	=======	

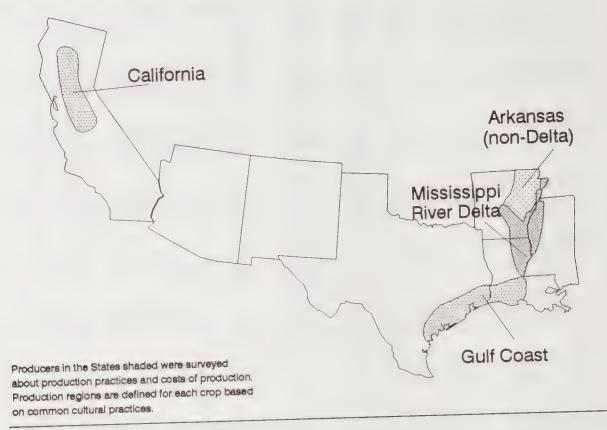
^{1/} Cost of custom operations and technical services.
2/ Cost of purchased irrigation water.

Table 27ASoybean production cash costs and returns, Sout	eturns,	Southeast,	1982-92	11 11 11 11 11	11 11 11 11 11 11	11 11 11 11 11 11 11 11 11 11 11 11 11	11 11 11 11 11 11 11 11 11 11 11 11 11	11 11 11 11 11	11 11 11 11 11 11 11 11 11 11 11 11 11	11	
1982	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
	61 11 11 11 11 11 11	11 11 10 11 11 11 11 11	H 11 11 11 11 11 11 11	Dol	Dollars per	planted a	cre				
Gross value of production: Soybeans Total, gross value of production	136.25	137.65	141.37	126.70	107.55	116.47	185.92	140.45	127.12	149.52	153.63
Cash expenses: Seed	7.54	7.25	9.96	10.11	9.90	9.71	9.68	11.70	9.69	10.16	10.02 23.92
Chemicals	21.00	22.11	22.86	14.40	14.04	5.75	5.78	2.22	2.27	2.52	2.58
Custom operations 1/ Fuel, lube, and electricity	12.60	10.96	8.98	11.87	7.21	8.85	8.85	9.57	10.24	10.69	11.40
Repairs Hired labor Other variable cash expenses 2/	2.57	2.62	2.08	2.83	2.79	3.01	3.22 0.00 65.78	11.07	11.24 0.00 85.54	0.00	12.01 0.00 91.92
Total, variable casn expenses General farm overhead Taxes and insurance	6.14	5.05	6.23 5.40 19.38	4.54	4.58 6.92 11.04	6.53	10.51	6.30	5.69 8.69 6.26 20.64	6.38 9.45 7.15 22.98	6.04 9.50 5.84 21.38
Total, fixed cash expenses	34.29	108.36	108.06	93.42	82.77	85.98	98.30	110.04	106.18	112.75	113.30
Gross value of production less cash expenses	22.86	29.36	33.40	33.29	24.78	30.60	87.76	30.41	20.94	36.77	40.33
Harvest-period price (dollars/bu.) 5.32	5.32	7.79	6.07	4.93	4.86	5.36	7.50	5.67	21.88	5.55	28.77

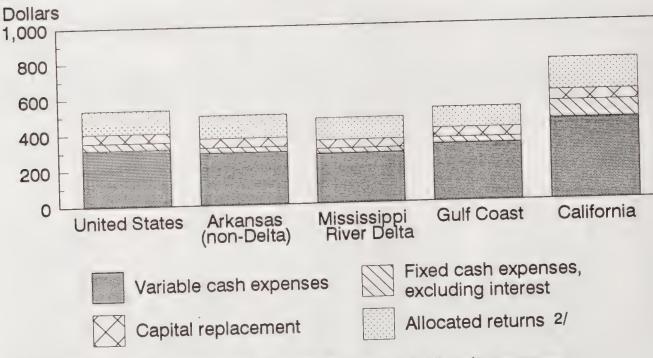
1 tem 1982	1982	1983	1984	1985	1986	1987	1988	1989	1990	1241	7661
	11 11 11 11 11 11 11 11 11			Dol	Dollars per	planted a	acre				
Gross value of production: Soybeans Total, gross value of production	136.25	137.65	141.37	126.70	107.55	116.47	185.92	140.45	127.12	149.52	153.63
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land Unpaid labor Total, economic costs	79.05 6.14 4.89 19.55 3.02 28.24 9.66 154.54	76.76 6.05 5.10 20.43 3.11 2.80 27.03 9.88 151.16	77.05 6.23 5.40 20.20 3.48 3.48 27.79 9.04	68.39 4.74 6.74 24.36 2.18 25.04 10.56 146.01	60.23 4.58 6.92 23.81 10.51 134.44	61.74 6.53 7.25 7.25 1.60 1.60 11.33 139.66	65.78 10.51 26.53 1.95 5.09 30.02 12.10	87.94 6.30 10.33 17.92 3.54 11.72 23.81 173.60	85.54 5.69 8.69 18.12 3.19 8.17 24.20 14.33 167.93	89.77 6.38 6.38 9.45 20.46 10.26 10.26 180.58	91.92 6.04 9.50 21.79 11.44 11.44 185.25 185.25
Residual returns to management and risk	-18.34	-13.44	-11.73	-19.30	-26.89	-23.08	26.6/	- 54.71	-40.01	00.16-	20.10
Harvest-period price (dollars/bu.) 5.32 Yield (bu./planted acre) 25.61	5.32	7.79	6.07	4.93	4.86	21.73	7.50	5.67	21.88	26.94	28.77

1982	1982	1983	1984	35	1986	1987	1988	1989	1990	1771	7661
	31 11 11 11 11 11 11 11	11 11 11 11 11 11 11 11		Dol	lars per	ted	a				
Gross value of production: Soybeans Total, gross value of production	132.49	158.77	154.26 154.26	121.86	88.33	115.95	184.81	120.27	139.36	150.98	181.69
Cash expenses: Seed Fertilizer, lime, and gypsum Chemicals Custom operations 1/ Fuel, lube, and electricity Repairs Hired labor Other variable cash expenses 2/	80.927.75 20.820 20.820 20.820 20.820 20.820 20.820	20.33 20.33 20.33 7.20 2.55 0.86	10.78 21.03 5.49 8.93 6.93 6.93 7.09	11.37 6.84 8.54 12.58 7.47 7.47 2.45 0.00	25.33 26.33 7.40 7.40 7.40 7.40 7.60 8.60	10.10 86.94 22.42 7.63 7.00 6.00 6.02	10.75 8.49 2.40 7.73 7.49 0.00 49.38	11.11 6.08 18.47 3.85 11.27 10.12 0.00	10.48 13.90 13.90 11.16 11.16 74.23	9.43 5.36 21.51 3.85 14.63 11.52 11.80 0.00 78.10	22.51 3.96 13.46 12.02 12.02 80.54
General farm overhead Taxes and insurance Interest Total fixed cash expenses	6.93 22.39 33.65			7.18 7.67 13.64 28.49	6.94 7.94 10.14 25.02		10.09 8.54 9.96 28.59	7.52 9.18 8.64 25.34	6.51 6.99 9.35 22.85	7.25 7.83 10.03 25.11	6.86 7.75 8.34 22.95
Total cach expenses	99.63	87.04	93.40	80.07	67.88	72.41	77.97	96.58	97.08	103.21	103.49
Gross value of production less cash expenses	32.91	71.64	68.09			43.50	106.88	23.69	42.28	47.77	78.20
Harvest-period price (dollars/bu.) 5.43 Yield (bu./planted acre)	5.43	7.86	6.20	4.98	4.88 18.10	5.54	7.47	8.6	5.92	5.64	32.62
Table 288Sovbean production economic costs and returns,	and return	, De					11 11 11 11 11 11	11 11 11 10 10 11	91 18 18 11 11 18	11 10 11 11 12 01 11	10 10 11 11 11 11 11 11
1 tem 1982	1982		1984	85	11 0 1	1987	101	989	199		- 11
	11 11 11 11 11 11 11	11 11 11 11 11 11	11 11 11 11 11 11 11	Do	lars per	planted	acre				
Gross value of production: Soybeans Total, gross value of production	132.49	158.77	154.26	121.86	88.33	115.95	184.81 184.81	120.27	139.36	150.98	181.69
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Land Unpaid labor	65.98 6.93 3.42 30.22 30.22 9.22 9.22 9.22 9.22	60.77 7.10 7.10 22.55 2.39 33.19 33.19 33.19	62.71 7.23 5.10 22.72 2.88 3.43 33.43	51.58 7.18 7.67 27.80 27.80 1.87 4.87 26.03 9.20	27.28 27.94 1.08 20.05 20.05 33 20.05	28.30 28.30 28.30 23.50 23.50 129.50	49.38 10.09 30.56 1.54 36.10 36.10 9.53	71.24 7.52 9.18 20.84 12.84 31.75 10.87	74.23 6.591 22.34 22.74 29.34 12.04 163.92	78.10 7.25 7.25 24.08 2.12 111.21 31.96 12.03 174.58	80.54 6.88 27.75 1.44 13.23 35.52 187.97
Total, economic costs Residual returns to management and risk	-12.49	15.	O	-14.14	9	-13.20		-46.83	-24.56	-23.60	-3.28
Harvest-period price (dollars/bu.) 5.43 Yield (bu./planted acre)	5.43	7.86	6.20	4.98	4.88 18.10	5.54 20.93	7.47	0 0	6.73	5.64 26.77	32.62

Rice Production Regions



Rice production economic costs per planted acre, 1992 1/



1/ Excluding government payments. 2/ Income foregone by allocating resources owned by the operation (operating and other nonland capital, land, and unpaid labor) to rice production rather than some income-producing use.

1982	1982	1983	1984	1985	986	1987	1988	1989	1990	1991	1992
	11 11 11 11 11 11 11 11 11 11 11 11 11	11	11 11 11 11 11 11	lod	lars per	planted ac	acre				
Gross value of production (excluding direct Government payments): Rice Total, gross value of production	356.65	400.12	393.22	430.71	218.41	263.89	366.85	415.64	319.42	407.88	370.79
Cash expenses: Seed Fertilizer	26.10 37.78 26.63			24.21 34.06 5.69	19.89 35.34 42.06	21.01 30.96 39.08	21.22 35.45 39.21	21.43	21.51 35.59 42.59	20.42 34.26 46.99	20.76 42.08 52.33
Chemicals Custom operations 1/ Fuel, lube, and electricity	33.36 20.48			53.12 44.56		37.51 47.10 23.34	52.62 55.19 26.78				
	20.86 36.30	35.29	25.35 32.04 32.04	34.67		39.08 39.08 8.76	34.70 39.02 8.07				
Other variable cash expenses 5/	272.55			271.41		285.93	292.26				'n
General farm overhead Taxes and insurance Interest	23.40	23.08 10.47 49.38 82.93	23.67 12.26 54.02 89.95	26.08 13.21 52.40 91.69	20.77 11.24 35.10 67.11	20.28 12.02 26.05 58.35	21.60 12.01 24.71 58.32	20.97 12.43 25.75 59.15	23.96 12.57 27.81 64.34	22.21 12.65 26.72 61.58	20.10 18.89 22.61 61.60
lotal, Tixed cash expenses	264. 14	1		363.10	354.32	344.28	350.58	365.95	380.88	391.89	377.67
Total, cash expenses	67 2-		38.69	67.61	-135.91	-80.39	.2	69.65	-61.46	15.99	-6.88
Harvest-period price (dollars/cwt.)	7.61	8.79	8.05 48.87	8.01 53.78	3.83	4.83	6.82	7.45	6.06	20	וו טו
TOTAL SOLUTION OF STATE OF STATE OF SCONOMIC COS	ts and reti		2-92	14 11 11 11 11 11 14 11 11					11 11 11 11 11	11 91 91 91 91 91 11	11 11 11 11 10 10 10
	1082	1083	1984	1985	1986	1987	1988	0	1990	1991	1992
1 Celli		11	11 11 11 11 11 11	O	ollars per	planted	acre	11 11 11 11 11 11 11 11 11			
Gross value of production (excluding direct Government payments): Rice Total, gross value of production	356.65	400.12	393.22	430.71	218.41	263.89 263.89	366.85	415.64	319.42	407.88	370.79
Economic (full ownership) costs: Variable cash expenses General farm overhead	272.55 23.40 9.96	268.39 23.08 10.47	264.58 23.67 12.26	271.41 26.08 13.21	287.21 20.77 11.24	285.93 20.28 12.02	292.26 21.60 12.01	306.80 20.97 12.43 43.81	316.54 23.96 12.57 45.76	330.31 22.21 12.65 47.79	316.07 20.10 18.89 52.12
Capital replacement Operating capital	45.27 8.89 7.62	, 9 V		2,95	, v.		16.70				
Uther nonland capitat Land Unpaid labor	53.80 14.50 23.80	14.		75 18 472			22.88 478.99				
Total, economic costs Desidual returns to management and risk	-79.34	-43				-170.05	-112.14	-97.50	-187.31	-131.35	-166.45
Harvest-period price (dollars/cwt.) 7.61 vield (cwt./planted acre)	7.61	8.79 45.53	8.05 48.87	8.01 53.78	3.83	4.83 54.67	6.82	55.79	52.71	54.24	6.32 58.67

Table 29C--U.S. rice production cash costs and returns, including direct Government payments and program participation costs, 1988-92

I tem	1988	1989	1990	1991	1992
	=======		ars per p		
Gross value of production					
(including direct Government payments):					
Market value of rice	366.85	415.64	319.42	407.88	370.79
Direct Government payments 1/	219.76	232.26	247.37	201.01	221.11
Haying/grazing on ACR and CU acreage	0.05	0.06	0.05	0.05	0.03
Total, gross value of production	586.66	647.96	566.84	608.94	591.93
Cash expenses:					
Seed	21.22	21.43	21.51	20.42	20.76
Fertilizer	35.45	38.43	35.59	34.26	42.08
Chemicals	39.23	40.62	42.61	47.01	52.35
Custom operations 2/	32.62	34.71	35.53	37.19	41.86
Fuel, lube, and electricity	55.67	58.60	64.80	69.54	64.94
Repairs	28.09	29.69	31.46	32.61	25.43
Hired labor	34.88	36.10	38.75	40.32	32.49
Drying 3/	39.02	40.80	40.20	41.80	27.10
Other variable cash expenses 4/	8.12	8.54	8.38	9.54	9.54
Total, variable cash expenses	294.30	308.92	318.83	332.69	316.55
General farm overhead	24.76	24.04	27.53	25.36	22.48
Taxes and insurance	14.14	15.06	14.93	13.79	21.66
Interest	28.40	29.60	32.02	30.57	25.52
Total, fixed cash expenses	67.30	68.70	74.48	69.72	69.66
Total, cash expenses	361.60	377.62	393.31	402.41	386.21
Gross value of production less cash expenses	225.06	270.34	173.53	206.53	205.72
	6.82	7.45	6.06	7.52	6.32
Harvest-period price (dollars/cwt.)	53.79	55.79	52.71	54.24	58.67
field (cwt./planted acre)	0.94	0.95	0.94	0.96	0.96
Percent of planted rice acres in program	0.94	0.95	0.74	0.70	0.90

Table 290--U.S. rice production economic costs and returns, including direct Government payments and program participation costs, 1988-92

Item	1988	1989	1990	1991	1992
		Doll	ars per p	lanted ac	======= re
Gross value of production					
(including direct Government payments):					
Market value of rice	366.85	415.64	319.42	407.88	370.79
Direct Government payments 1/	219.76	232.26	247.37	201.01	221.11
Haying/grazing on ACR and CU acreage	0.05	0.06	0.05	0.05	0.03
Total, gross value of production	586.66	647.96	566.84	608.94	591.93
Economic (full ownership) costs:					
Variable cash expenses	294.30	308.92	318.83	332.69	316.55
General farm overhead	24.76	24.04	27.53	25.36	22.48
Taxes and insurance	14.14	15.06	14.93	13.79	21.66
Capital replacement	42.14	44.44	46.43	48.48	52.30
Operating capital	10.18	12.42	11.91	9.05	5.65
Other nonland capital	17.14	20.71	22.79	25.36	20.64
Land	115.90	131.34	110.19	118.26	120.08
Unpaid labor	23.02	24.09	25.36	27.49	25.28
Total, economic costs	541.58	581.02	577.97	600.48	584.64
Residual returns to management and risk	45.08	66.94	-11.13	8.46	7.29
Harvest-period price (dollars/cwt.)	6.82				
Yield (cwt./planted acre)	53.79			54.24	58.67
Percent of planted rice acres in program	0.94			0.96	0.96

^{1/} Deficiency payments and marketing loan payments. Payments not adjusted for payment limitations. 2/ Cost of custom operations and technical services. 3/ Commercial drying only beginning in 1992. 4/ Cost of purchased irrigation water, cover crop seed, other innput items.

Gross value of production (excluding direct Government payments): Total, gross value of production Cash expenses: Seed	1702	3	-								֡
iross value of production (excluding direct Government payments): Rice Total, gross value of production Cash expenses: Seed						H					1
Gross value of production (excluding direct Government payments): Rice Total, gross value of production Cash expenses: Seed				Dol	lars per p	planted ac	cre				
Cash expenses:	333.63	381.21	379.02	445.69	208.79	263.71 263.71	370.69	420.14	300.41	400.32	369.15
Seed	1			24 70		10 08	10 06		19.60	16.44	19.26
	36.00	32.08		27.11	31.39	27.50	32.06	34.68	31.64	28.13	38.32
Chemicals	25.40	26.69		1.21		30,43	25.31		27.82	28.49	34.37
Custom operations 1/	52.82	48.61		54.54		50.77	58.97		31.92	33.36	25.69
Repairs	19.91	21.14		26.85		34.94	32.40		37.30	40.53	30.00
Hired Labor	34.12	33.78		23.31		32.70	32.63		21.62	1,44	0.98
Other variable cash expenses 3/	0.00	0.00	0.00	229.67	249.23	257.87	262.90		287.15	295.03	291.89
יייייייייייייייייייייייייייייייייייייי	17 37	17.25	17.78					17.81			
General tarm overhead Taxes and insurance	8.25		11.27	12.16	12.74	13.29	12.69	13.10	30.08	28.69	22.95
Interest Interest	81.70	61.27	74.21	0 4				58.31			
	07 662	208 7.2	208 55	317.95	311.60	312.22	320.27	335.94	351.15	355.91	345.27
Total, cash expenses			a				50 73	06, 20	-50,74	14-41	23.88
Gross value of production less cash expenses		82.	80.97	127.74	-102.81	-40.31	0 11	. 11			
Harvest-period price (dollars/cwt.) 7.74 (3.10 vield (cut /planted acre)		8.93	8.19	9 8	3.87	001	6.93	7.52 55.87	6.08	51.99	56.88
	ii	61 11 11 11 11 11 11 11 11 11	17 01 16 16 10 10 11 11	81 16 16 16 16 18 18 18 18 18 18							
Table ZonDice production economic costs and	returns,	Arkansas	(non-Del	ta), 1982	-92				11 11 11 11 11 11	11 10 11 11 11 11	11
1982	1982	1983	1984	1985		1987	1988	1989	1990	1991	1992
	11 12 13 11 11 11		ii 14 10 10 10 10 10 11 11	OO	llars per	planted a	scre				
Gross value of production (excluding direct Government payments): Rice Rice ares value of production	333.63	381.21	379.02 379.02	69.577	208.79	263.71	370.69	420.14	300.41	400.32	369.15
								!	100	-	00 100
Economic (full ownership) costs: Variable cash expenses	240.79	237.15	224.34	229.67	249.23	257.87 16.22 17.20	262.90 18.35	277.63 17.81 13.10	20.62	18.72	13.79
Takes and insurance	41.70		11.27	12.16	29	60.94	45.50	47.81	49.44	55 8	51.76
Operating capital	8.05		10.97	5.33	40	10.49	17.85	21.53	23.65	28,5	22.02
Land	53.92		78.15	94.90	را 5	16.19	16.87	17.48	19.42	32.5	26.61
Unpaid labor Total, economic costs	392.80		454.30	455.27	386	409.28			10.404	497	122 00
Residual returns to management and risk	-59.17	- 1	-45.28	-9.58	-177.56	-145.57	-71.19	-56.01	-164.20	CI . / Y -	• H
Harvest-period price (dollars/cwt.) 7.74 Yield (cwt./planted acre) 43.10 4	7.74	8.93	8.19 46.28	8.57 52.01	3.87	53.60	6.93	7.52 55.87	7.52 6.08 5.87 49.41 ==========	51.99	56.88

Table 30C--Rice production cash costs and returns including direct Government payments and program participation costs, Arkansas (non-Delta), 1988-92

and program participation coost,	1988	1989	1990	1991	1992
I tem	=======	======= Dollar	s per pla	nted acre	
cross value of production					
(including direct Government payments):	770 (0	420.14	300.41	400.32	369.15
Market value of rice	370.69	226.95	235.75	179.46	206.24
nirect Government payments 1/	213.45		0.03	0.03	0.00
unving/grazing on ACR and CU acreage	0.03	0.04	536.19	579.81	575.39
Total, gross value of production	584.17	647.13	230.17	379.01	313.07
Cash expenses:	19.06	19.46	19.60	16.44	19.26
Seed		34.68	31.64	28.13	38.32
Fertilizer	32.06	33.69	35.47	38.53	51.18
Chemicals	32.41		27.82	28.49	34.37
Custom operations 2/	25.31	26.98	70.63	76.23	67.87
Fuel, lube, and electricity	59.35	62.95	33.29	34.79	25.73
Repairs	29.97	31.70		40.71	30.01
Hired labor	32.56	33.76	37.47	32.41	24.25
Drying 3/	32.63	34.90	31.83	1.53	1.03
Other variable cash expenses 4/	1.42	1.47	1.51	, , , , _	292.02
Total, variable cash expenses	264.77	279.59	289.26	297.26	292.02
	22.02	21.37	24.74	22.46	15.97
General farm overhead	14.38	15.12	15.00	13.91	19.03
Taxes and insurance	31.39	32.66	35.85	34.20	26.45
Interest	67.79	69.15	75.59	70.57	61.45
Total, fixed cash expenses	01.17	07613	, , , , , ,		
Total, cash expenses	332.56	348.74	364.85	367.83	353.47
and value of production less cash expenses	251.61	298.39	171.34	211.98	221.92
	6.93	7.52	6.08	7.70	6.49
Harvest-period price (dollars/cwt.)	53.49	55.87	49.41	51.99	56.8
Yield (cwt./planted acre) Percent of planted rice acres in program	95	97	95	98	9!

Table 30D--Rice production economic costs and returns including direct Government payments and program participation costs, Arkansas (non-Delta), 1988-92

		1989	1990	1991	1992
	:=======	Dollar	s per pla	nted acre	
Gross value of production (including direct Government payments): Market value of rice Direct Government payments 1/ Haying/grazing on ACR and CU acreage Total, gross value of production	370.69 213.45 0.03 584.17	420.14 226.95 0.04 647.13	300.41 235.75 0.03 536.19	400.32 179.46 0.03 579.81	369.15 206.24 0.00 575.39
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land Unpaid labor Total, economic costs	264.77 22.02 14.38 46.01 9.16 18.23 118.03 16.99 509.59	279.59 21.37 15.12 48.35 11.24 21.99 132.87 17.61 548.14	289.26 24.74 15.00 50.01 10.80 24.16 103.24 19.56 536.77	297.26 22.46 13.91 52.26 8.09 26.97 114.94 21.25 557.14	292.02 15.97 19.03 51.80 5.21 22.04 122.42 26.63 555.12
Residual returns to management and risk	74.58	98.99	-0.58	22.67	20.27
Harvest-period price (dollars/cwt.) Yield (cwt./planted acre) Percent of planted rice acres in program	6.93 53.49 95	7.52 55.87 97	6.08 49.41 95		6.49 56.88 95

1/ Deficiency payments and marketing loan payments. Payments not adjusted for payment limitations. 2/ Cost of custom operations and technical services. 3/ Commercial drying only beginning in 1992. 4/ Cost of purchased irrigation water, cover crop seed, and other input items.

Table 31ARice production cash costs and returns, Mississ	urns, Missi	ssippi Ri	ver Delt	a, 1982-9	2	11 11 14 14 11 11 11	11 11 11 11 11 11	11 11 11 11 11 11	11 13 14 14 11 11 11		
[tem	1982	-	1984	1985	1986	1987	1988	1989	1990	1991	1992
	11 11 11 14 11 11 11 11 11	11 11 11 11 11 11 11		Dod	lars per	e pa	cre				
Gross value of production (excluding direct Government payments): Rice Total, gross value of production	307.97	353.60	344.73	396.26	202.77	239.94	351.65	399.69	304.53	373.86 373.86	357.07 357.07
Cash expenses:	23.01					19.01			20.85	19.03	20.16
Seed	28.57					26.00			50.46	54.81	52.41
Custom operations 1/	30.90					39.55			63.25	67.96	67.09
Fuel, lube, and electricity Repairs	17.53					21.84			32.46	55.92 46.28	29.28
Hired labor Drying 2/ Other variable cash expenses 3/	30.38	30.24	26.18	30.58	39.93	36.13 1.73 268.00	40.15 1.75 299.07	43.03 1.83 315.00	41.59 1.89 329.66	336.77	277.86
Total, variable cash expenses	62.757	•	- 1	j e	L	1000	4		~		
General farm overhead Taxes and insurance Interest	15.99 8.82 51.63	16.41 8.03 33.47	10.33	23-34 11-35 76-34	24.70	17.64	10.36	17.73	10.76 19.29 52.08	10.82 18.40 49.22	14.57 20.08 47.26
Total, fixed cash expenses	16.44		2		00.40		27.7.7.2	1	781 76	385 00	325.12
Total, cash expenses	308.97	293.04	311.45	331.35	320.66	515.51	240.33			8	1 1
Gross value of production less cash expenses	-1.00	0	3.2		-117.89	-75.61	5.32	37.33		. 11	2 11 1
Harvest-period price (dollars/cwt.) 7.68	7.68	8.86 39.91	8.03	7.90	3.91	4.98		7.53	6.12	7.68	6.51 54.85
	14 11 11 11 11 11 11 11	ji ji	16 11 11 16 11 11 18	15 11 14 14 11 11 10	10 11 11 51 51 11 10 69						
Table 318Rice production economic costs and	d returns,	ssissi	ppi River	ta,		1	1 i i i i i i i i i i i i i i i i i i i	11 11 11 11 11 11 11	11 11 11 11 11 11 11	11 11 11 11 11 11 11 11 11 11 11 11 11	11 11 11 11 11 11 11 11 11 11 11 11 11
1982	1982	1983	ii <		1986	19	19	1989	1990	1991	1992
	11 01 01 10 01 01 01 01	11 11 11 11 11 11 11	11 16 11 11 11 11	00	llars per	. planted	I	1			
Gross value of production (excluding direct Government payments): Rice Total, gross value of production	307.97	353.60	344.73	396.26	202.77	239.94	351.65	399.69	304.53	373.86 373.86	357.07 357.07
Economic (full ownership) costs:	22 626	ر د		252	266.	268.		315.00		336.77	
Variable cash expenses General farm overhead	15.99	16.41	16.37	23.34	19.55	10	19.61	19.03	10.76	10.82	14.57
Taxes and insurance Capital replacement	38.96	44		46.0	0,4	, 10, 10,		12.86		9.16	
Operating capital	6.81	IN O		50.0	21.	26.		71.45		61.85	
Unpaid labor Total, economic costs	360,95	MILA		413	385	391.		505.60		526.30	0 0
Residual returns to management and risk	-52.98	-2	-49.00	-17.51	-183.10	-151.94	-119.19	-105.91	-201,28	-152.44	-117.24
Harvest-period price (dollars/cwt.) 7.68 / 40.10 / 7.61	7.68	M	8.03			4.00	50.67	53.08	6.12 49.76	7.68	54.85
1/ Cost of custom operations and technical services. Note: Survey base changed in 1984, 1986, and 1992.		2/ Comme	rcial dryi	ng onl	beginning	g in 1992	. 3/ Cost	of purchase	ed irri	gation water	ter.

Table 31C--Rice production cash costs and returns including direct Government payments and program participation costs, Delta, 1988-92

item	1988	1989	1990	1991	1992
	=======			anted acr	
Gross value of production					
(including direct Government payments):	45	700 (0	304.53	373.86	357.07
Market value of rice	351.65	399.69	210.06	180.05	183.16
Direct Government payments 1/	193.24	202.76		0.19	0.01
Haying/grazing on ACR and CU acreage	0.18	0.21	0.19	554.10	540.24
Total, gross value of production	545.07	602.66	514.78	554.10	340.24
Cash expenses:	20.7/	20.82	20.85	19.03	20.16
Seed	20.76	34.35	33.27	30.20	39.14
Fertilizer	31.47		50.48	54.84	52.41
Chemicals	46.12	47.94	41.70	42.70	34.44
Custom operations 2/	37.92	40.44		68.88	67.25
Fuel, lube, and electricity	54.25	56.79	64.10		23.90
Repairs	31.51	33.38	35.23	36.82	29.34
Hired labor	38.67	40.10	44.51	46.61	
	40.15	43.03	41.59	39.95	11.60
Drying 3/ Other variable cash expenses 4/	1.75	1.83	1.89	1.92	0.17
Total, variable cash expenses	302.60	318.68	333.62	340.95	278.41
	23.39	22.70	26.27	23.85	15.37
General farm overhead	12.23	12.93	12.63	11.50	17.28
Taxes and insurance	20.49	21.02	22.88	21.83	24.0
Interest		56.65	61.78	57.18	56.60
Total, fixed cash expenses	56.11	20.02	01.70	37.10	2000
Total, cash expenses	358.71	375.33	395.40	398.13	335.07
	186.36	227.33	119.38	155.97	205.17
Gross value of production less cash expenses			========	========	
	6.94		6.12	7.68	6.5
Harvest-period price (dollars/cwt.)	50.67		49.76	48.68	54.8
Vield (cwt./planted acre)	93	89	88	92	9
Percent of planted rice acres in program					======

Table 31D--Rice production economic costs and returns including direct Government payments and program participation costs, Delta, 1988-92

I tem	1988	1989	1990	1991	1992
=======================================	=========	Dolla	rs per pl	anted acr	e e
iross value of production (including direct Government payments): Market value of rice Direct Government payments 1/ Haying/grazing on ACR and CU acreage Total, gross value of production	351.65	399.69	304.53	373.86	357.07
	193.24	202.76	210.06	180.05	183.16
	0.18	0.21	0.19	0.19	0.01
	545.07	602.66	514.78	554.10	540.24
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land Unpaid labor Total, economic costs	302.60	318.68	333.62	340.95	278.41
	23.39	22.70	26.27	23.85	15.37
	12.23	12.93	12.63	11.50	17.28
	40.58	42.86	44.80	46.82	47.87
	10.47	12.81	12.46	9.27	4.97
	16.54	19.99	22.00	24.56	19.73
	107.87	123.76	97.48	109.20	106.76
	15.42	15.99	17.76	18.60	15.72
	529.10	569.72	567.02	584.75	506.11
Residual returns to management and risk	15.97	32.94	-52.24 =======	-30.65 =======	34.13
Harvest-period price (dollars/cwt.) Yield (cwt./planted acre) Percent of planted rice acres in program	6.94	7.53	6.12	7.68	6.5
	50.67	53.08	49.76	48.68	54.8!
	93	89	88	92	9!

1/ Deficiency payments and marketing loan payments. Payments not adjusted for payment limitations. 2/ Cost of custom operations and technical services. 3/ Commercial drying only beginning in 1992. 4/ Cost of purchased irrigation water, crop seed, and other input items.

I tem 1982 19	1982	83	198	00	1986	1987	1988	1989	1990	1991	1992
	61 16 16 18 11 11 11 11	() 	11 10 11 12 13 14 11 11 11	Dol	lars per	lanted a	J.				
Gross value of production (excluding direct Government payments): Rice Total, gross value of production	345.07 345.07	363.62	371.69	384.13	203.13	247.68	355.79	367.08 367.08	326.98 326.98	400.73	338.25
Cash expenses: Seed Fertilizer Chemicals Custom operations 1/ Fuel, lube, and electricity Repairs Hired labor Drying 2/ Other variable cash expenses 3/	25.57 25.57 20.89 23.25 23.25 35.73 85.73	24.74 39.59 27.07 31.72 52.70 24.77 54.15	25.14 40.05 4.45 22.28 41.31 41.31 41.31 55.09 43	26.35 38.74 4.52 36.42 36.42 25.29 26.24 44.24 313.01	21.90 40.36 40.08 34.18 41.33 19.58 41.34 46.80 17.34	23.23 38.83 35.80 45.83 19.62 41.62 43.70 302.07	24.76 43.78 39.78 32.42 50.82 23.88 32.62 44.41 18.29	24.98 47.24 41.03 34.40 52.11 25.14 33.15 42.01 18.97	25.10 43.02 35.36 57.48 56.71 47.14 19.02 329.55	24.63 43.04 46.03 35.98 64.03 33.50 47.74 18.59 342.72	22.53 45.18 47.83 40.11 59.39 27.09 18.72 319.60
General farm overhead Taxes and insurance Interest	18.78 9.06 51.88 79.72				18.72 8.89 29.14 56.75	18.27 9.58 21.14 48.99	21.78 10.44 20.64 52.86	20.88 10.61 21.00 52.49	23.99 10.81 22.75 57.55	21.50 10.88 21.86 54.24	16.63 16.79 20.52 53.94
1000 1000 1000 1000 1000 1000 1000 100	398.53	381.87	372.89	383.40	359.66	351.06	362.99	371.52	387.10	396.96	373.54
fords, cash expenses	-53.46	က်	-1.20	0.73	6.5	3.3	-7.2	0	-60.12	3.77	-35.29
Harvest-period price (dollars/cwt.)	7.77	10.4	8.23	7.94	3.86	4.89 50.63	7.03 50.61	7.63	6.27	52.11	4.6.
Table 328Rice production economic costs and returns, Gulf	returns,	f co	st, 1982-	92	1 1 1 1 1 1			6) 11 16 8) 11 14 9)	11 11 15 11 11 13 11	ii 11 11 11 11 11 11 11	44 111 114 111 114 115
	1982	198	984	1985	1986	1987	198	1989	1990	1991	1992
	16 94 11 11 11 11 11 11	11 11 11 11 11 11 11	ii 		ollars per		1				
Gross value of production (excluding direct Government payments): Rice Total, gross value of production	345.07	363.62	371.69	384.13	203.13	247.68	355.79	367.08	326.98 326.98	400.73	338.25
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Capital capital Land Unpaid labor	318.81 9.06 53.10 10.37 10.37 110.37 110.37	310.74 18.85 9.98 56.13 8.27 43.73 16.21	299.43 99.64 99.63 39.80 8.67 8.67 22.70 22.92	213.01 20.68 10.69 41.09 6.90 8.13 55.72 18.29	302.91 18.72 8.89 33.84 4.71 6.55 9.11 27.95	302.07 18.27 9.58 33.90 5.32 6.44 17.35 721.25	310.13 21.78 10.44 38.10 10.73 15.95 46.40 29.34 482.87	319.03 20.88 10.61 40.04 12.83 19.22 50.79 503.87	329.55 23.95 10.81 42.14 12.31 21.11 40.76 513.01	342.72 21.50 10.88 45.39 23.89 51.63 32.69 538.02	319.60 16.63 16.79 53.17 53.17 60.74 60.74 523.08
Total, economic costs Residual returns to management and risk	-128.86	် ထိ	-88.	-90	-209.	mi	-127.08	0 1	-186.03	-137.29	-184.83
Harvest-period price (dollars/cwt.) 7.77 Viold (cut /planted acre)	7.77	8.98 40.48	8.23	7.94	3.86	50	7.0	148		52.11	52.36

Table 32C--Rice production cash costs and returns including direct Government payments and program participation costs, Gulf Coast, 1988-92

and program partitipation decay ===================================	1988	1989	1990	1991	1992
Item	=======	====== Dolla	rs per pl	anted acr	е
Gross value of production					
(including direct Government payments):	755 70	367.08	326.98	400.73	338.25
Market value of rice	355.79	223.06	249.10	194.29	223.30
ninget Covernment payments 1/	209.06		0.00	0.00	0.03
Having/grazing on ACR and CU acreage	0.00	0.00	576.08	595.02	561.58
Total, gross value of production	564.85	590.14	576.00	J,J. 0L	30
Cash expenses:	2/ 7/	24.98	25.10	24.63	22.53
Seed	24.76	47.24	41.91	43.04	45.18
Fertilizer	43.15	41.04	43.03	46.75	47.87
Chemicals	39.79	34.40	35.36	35.98	40.13
Custom operations 2/	32.42		58.00	64.65	59.68
Fuel, lube, and electricity	51.29	52.56	27.50	29.28	25.21
Repairs	24.61	25.90	33.97	33.65	33.96
Hired labor	32.78	33.31		47.74	27.09
Drying 3/	44.41	42.01	47.14	18.62	18.78
Other variable cash expenses 4/	18.31	18.99	19.04		320.43
Total, variable cash expenses	311.52	320.43	331.05	344.34	320.4.
	23.67	22.73	26.14	23.43	17.76
General farm overhead	12.64	13.56	13.46	12.09	18.44
Taxes and insurance	22.40	22.82	24.75	23.76	21.93
Interest	58.71	59.11	64.35		58.13
Total, fixed cash expenses	20.71	27.11	04.33		
Total, cash expenses	370.23	379.54	395.40	403.62	378.5
Gross value of production less cash expenses	194.62	210.60	180.68	191.40	183.0
	7.03	7.63	6.27	7.69	6.4
Harvest-period price (dollars/cwt.)	50.61	48.11	52.15	52.11	52.3
Yield (cwt./planted acre) Percent of planted rice acres in program	91	95	95	97	9

Table 32D--Rice production economic costs and returns including direct Government payments and program participation costs, Gulf Coast, 1988-92

I tem	1988	1989	1990	1991	1992
=======================================	========	Dolla	rs per pl	anted acr	e
Gross value of production (including direct Government payments): Market value of rice Direct Government payments 1/ Haying/grazing on ACR and CU acreage Total, gross value of production	355.79 209.06 0.00 564.85	367.08 223.06 0.00 590.14	326.98 249.10 0.00 576.08	400.73 194.29 0.00 595.02	338.25 223.30 0.03 561.58
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land Unpaid labor Total, economic costs	311.52 23.67 12.64 38.61 10.78 16.34 91.45 29.49 534.50	320.43 22.73 13.56 40.58 12.88 19.68 100.94 30.62 561.42	331.05 26.14 13.46 42.71 12.36 21.62 98.20 32.50 578.04	344.34 23.43 12.09 45.97 9.37 24.44 100.10 32.85 592.59	320.43 17.76 18.44 53.54 5.72 20.36 101.58 30.36 568.19
Residual returns to management and risk	30.35	28.72	-1.96	2.43	-6.61 =======
Harvest-period price (dollars/cwt.) Yield (cwt./planted acre) Percent of planted rice acres in program	7.03 50.61 91	48.11 95	52.15 95	7.69 52.11 97	6.46 52.36 97

1/ Deficiency payments and marketing loan payments. Payments not adjusted for payment limitations. 2/ Cost of custom operations and technical services. 3/ Commercial drying only beginning in 1992. 4/ Cost of purchased irrigation water, cover crop seed, and other input items.

1 tem 1982 19	1982	783	1984	1985	1986	1987	1988	1989	0661	1331	2661
				Dol		anted a	cre				
Gross value of production (excluding direct Government payments): Rice Total, gross value of production	489.34	582.15 582.15	534.86	531.88	281.84 281.84	316.19	412.87	515.91	401.41	513.93	97.774
Cash expenses: Seed	31.33	24.15	0 0	26.56	21.09	21.59	22.01	22.06	22.09	24.80 39.23 57.94	50.95
Chemicals	24.03				200	47.90					81.00
Custom operations 1/ Fuel, lube, and electricity	30.54	0 0			MC	47.51					27.93
0	19.55		0 0		- K	44.08			0 0		65.34
Other variable cash expenses 3/	24.32	300.80	24.83	304.73	NN	23.13					29.70
General farm overhead	53.59			39.09	35.78	34.93	37.92	36.81	18.10	38.67	58.46
Interest fixed cach expenses	153.00	118.12	108.99		8 4	0 0	0 0	0 0	٥٠٠	0 0	0.7
TOTAL TOTAL CONTRACTOR	20.857		486.25	458.72	456.45	437.75	445.65	472.58	489.56	498.76	579.23
TOTAL TOTAL OF PRODUCTION Lock Cach expenses	31.31		48.61	73.16	-174.61	N.	7.	M	8.1	15.17	-101.77
Harvest-period price (dollars/cwt.)	7.21	8.32	7.63	7.38	3.69	4.49	5.95	6.61	5.35	6.69	35.
Table 338Pice production economic costs and returns,	reserved.	Californi	a, 1982-	92	 	1					61 61 61 61 61 61 61 61
		1007	100/	1085	1086	1987	1988	1989	1990	1991	199
1902	3041	- II			llars	11	acre	11 11 10 11 11 11 11	11 11 11 11 11 11 11	11 13 14 15 15 15 16 16 16 17	11 11 11 11 11 11 11
Gross value of production (excluding direct Government payments): Rice Total, gross value of production	786.34	582.15 582.15	534.86	531.88	281.84 281.84	316.19	412.87	515.91	401.41	513.93	477.46
Economic (full ownership) costs: Variable cash expenses General farm overhead	305.03				337.64	336.74	346.49 37.92	371.84 36.81	378.04 42.60 18.10	393.68 38.67 17.93	449.10 60.15 38.46
Taxes and insurance Capital replacement	16.44	49.75	62.22 10.05	7.93	30.70						59.26 8.02
Operating capital	7.56			0 0	5.95	0 0					124.49
Land Unpaid labor Total, economic costs	13.58	M 90			42.25 545.21	8 0			6 8		787.07
Residual returns to management and risk	-64.88		-59.53	-50.26	-263.37	-239.83	-216.16	-170.88	-270.85	-178.18	· 11
Harvest-period price (dollars/cwt.) 7.21 8	7.21	8.32	7.63	7.38	76.	4.49	5.95	78.05	5.35	6.69	5.57 85.72

Table 33C--Rice production cash costs and returns including direct Government payments and program participation costs, California, 1988-92

!tem	1988	1989	1990	1991	1992
		======= Dolla	ers per pl	anted acr	`e
iross value of production					
(including direct Government payments):			101 11	F47 07	177 14
Market value of rice	412.87	515.91	401.41	513.93	477.46
Direct Government payments 1/	327.26	331.86	379.55	322.03	331.3
Haying/grazing on ACR and Cu acreage	0.00	0.00	0.00	0.00	0.1
Total, gross value of production	740.13	847.77	780.96	835.96	808.9
Cash expenses:					
Seed	22.01	22.06	22.09	24.80	21.9
Fertilizer	38.63	41.07	41.89	39.23	50.9
Chemicals	48.85	50.77	53.46	58.07	65.8
Custom operations 2/	49.41	52.70	54.34	55.65	81.0
Surl Lube and electricity	55.18	59.46	58.78	62.57	64.6
Fuel, lube, and electricity	21.81	23.20	24.92	26.04	28.1
Repairs	40.49	43.00	42.74	43.21	42.0
Hired labor	48.03	55.59	55.09	59.15	65.3
Drying 3/	23.15	25.15	25.92	26.22	29.8
Other variable cash expenses 4/	347.56	373.00	379.23	394.94	449.6
Total, variable cash expenses	347.30	373.00	J17060	374471	
General farm overhead	40.79	39.58	45.82	41.59	65.2
Taxes and insurance	20.16	21.40	22.31	21.91	44.9
	48.58	50.56	55.51	52.95	34.2
Interest	109.53	111.54	123.64	116.45	144.4
Total, fixed cash expenses	(0),000				
Total, cash expenses	457.09	484.54	502.87	511.39	594.1
Gross value of production less cash expenses	283.04	363.23	278.09	324.57	214.8
	_=======		========	=======	======
Harvest-period price (dollars/cwt.)	5.95	6.61	5.35	6.69	5.5
field (cwt./planted acre)	69.39	78.05	75.03	76.82	85.7
Percent of planted rice acres in program	99	99	99	99	9

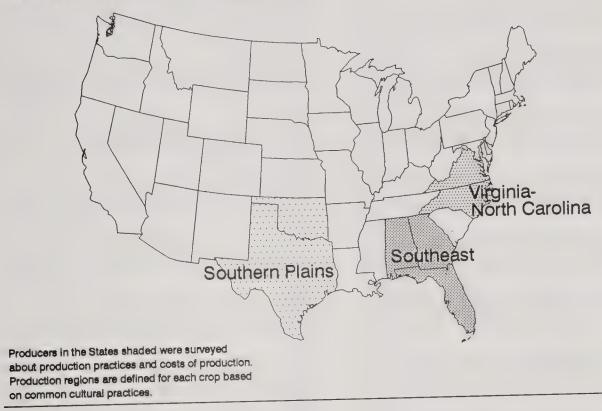
Table 33D--Rice production economic costs and returns including direct Government payments and program participation costs, California, 1988-92

Item	1988	1989	1990	1991	1992
		Dolla	ars per pl	lanted acr	:====== `e
Gross value of production					
(including direct Government payments):			104 14	E47 07	177 16
Market value of rice	412.87	515.91	401.41	513.93	477.46
Direct Government payments 1/	327.26	331.86	379.55	322.03	331.35
Haying/grazing on ACR and Cu acreage	0.00	0.00	0.00	0.00	0.13
Total, gross value of production	740.13	847.77	780.96	835.96	808.94
Economic (full ownership) costs:					
Variable cash expenses	347.56	373.00	379.23	394.94	449.64
General farm overhead	40.79	39.58	45.82	41.59	65.29
Taxes and insurance	20.16	21.40	22.31		44.95
Capital replacement	39.22	41.62	44.42	46.42	59.47
Operating capital	12.03	14.99	14.16	10.74	8.03
Other nonland capital	16.20	19.61	21.77	24.30	19.24
Land	184.67	209.54	172.86	189.44	182.72
Unpaid labor	47.13	50.04	49.75	50.30	28.52
Total, economic costs	707.76	769.78	750.32	779.64	857.86
Residual returns to management and risk	32.37	77.99	30.64	56.32	-48.92
	5.95	6.61	5.35	6.69	5.57
Harvest-period price (dollars/cwt.)	69.39	78.05	75.03	76.82	85.72
Yield (cwt./planted acre)	99	99	99	99	97
Percent of planted rice acres in program	99				=======

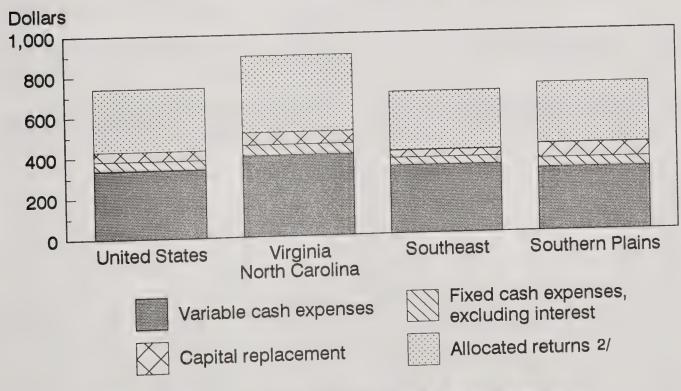
1/ Deficiency payments and marketing loan payments. Payments not adjusted for payment limitations. 2/ Cost of custom operations and technical services. 3/ Commercial only beginning in 1992. 4/ Cost of purchased irrigation water, cover crop seed, and other input items.

Note: Survey base changed in 1984, 1986 and 1992.

Peanut Production Regions



Peanut economic costs per planted acre, 1992 1/



1/ Excluding government payments. 2/ Income foregone by allocating resources owned by the operation (operating and other nonland capital, land, and unpaid labor) to peanut production rather than some other income-producing use.

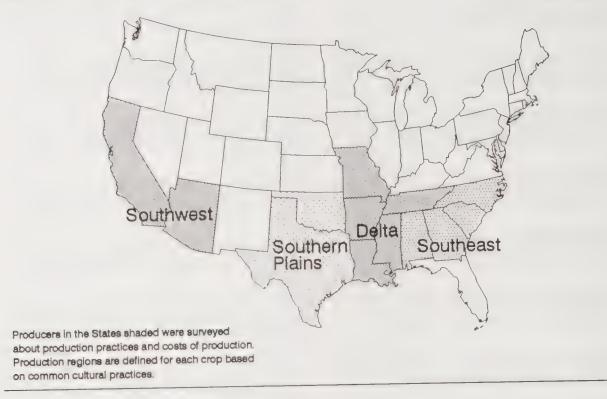
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1331	=======
	11 11 11 11 11 11 11 11	 	H	00	ars per	lanted a	cre				
Gross value of production: Peanuts Peanut hay Total, gross value of production	656.42 10.99 667.41	562.79 17.22 580.01	707.78 18.68 726.46	621.19 16.81 638.00	680.57 9.21 689.78	644.81 10.66 655.47	681.98 13.68 695.66	668.22 11.31 679.53	684.15 11.26 695.41	690.66 6.57 697.23	746.96 6.70 753.66
Cash expenses: Seed	59.48				5	1	40				
Fertilizer, lime, and gypsum Chemicals	82.82			0 0	101	144	101				
Custom operations 1/ Fuel, lube, and electricity	33.96		0 0	0 0	2001	000	3 /- a				
Repairs Hired Labor	14.77		0 0	0 0	0 00 ~	500-	10 a				
Orying Other variable cash expenses	59.74 0.20 292.32	291.71	310.65	295.10	274.11	295.24	297.42	302.54	305.33	375.03	338.58
General farm overhead	27.36		28.87	24.31	32.81	31.67	33.71	32.51	37.63	23.98	24.30
Interest Total fixed cash expenses	96.86		mm	0 0	2.9	20	7.0	7.	vin.	0.0	9 0
Total cach expenses	426.25	427.96	424.12	395.73	387.08	390.97	391.02	396.54	408.92	465.19	450.44
Gross value of production less cash expenses	241.16	52.	302.34	242.27	02.7	64.5	304.64	282.9	4.9	2.0	333.22
	0.25	0.24	25	0.22	0.29	2,305.30	2,427.32	2,432.40 1	0.35	94,	5.7
Table 348U.S. peanut production economic costs and ret	sts and r	turns, 1	82-92	1 1 1 1 1						\$1 11 11 11 11	01 11 11 11 11 11 11
	1982	1983	198	985	1986	1987	19	1989	1990	1991	1992
	11 11 15 11 11 11 11 11	#	18 11 11 11 11 11 11 11 16	00 00	llars per	planted	acre	[1 1 1 1 1 1		
Gross value of production: Peanuts Peanut hay Total, gross value of production	656.42 10.99 667.41	562.79 17.22 580.01	707.78 18.68 726.46	621.19 16.81 638.00	680.57 9.21 689.78	644.81 10.66 655.47	681.98 13.68 695.66	668.22 11.31 679.53	684.15 11.26 695.41	690.66	746.96 6.70 753.66
Economic (full ownership) costs: Variable cash expenses	292.32		0		4.1	2	1		MA		10 ×
General farm overhead Taxes and insurance	27.36	0.00	000	wwi	യ്സ്.∽	0-0	0 KG =		040		100
Capital replacement Operating capital	11.66	9.56	11.37	8.37	9.95	7.16	11.91	15.20	16.82	10.20	25.40
Long notice of the board	92.90 N/A	0 2	$\sim \Rightarrow$	0. ×	65.0	210	MM.		21		SWI
Unpaid labor Total, economic costs	16.01	16.10	ന്ന	MO.	0.0	-14	0.10		20	0 1	7:
Residual returns to management and risk	162.21	81.6	98.0	147.67	92.13	39.17	62.43		W !!	-41.13	• 11
Harvest-period price (dollars/lb.) 0.25	0.25	350	0.25	101	354	0.2	27.3	,43	1,954.70	2,466.63	2,575.74

Item ue of production:								-	2		1
oss value of production:	1982	1983	786	1985	13	1987	1988	1989	1990	1771	========
	ii 11 11 11 11 11 11 11	16 11 11 11 11 11 11 11	10 11 10 11 11 11 11 11 11 11	Doll	ars per	nted a	ē.				
production	741.40 8.49 749.89	525.40 13.93 539.33	754.40 13.89 768.29	686.76 13.32 700.08	900.76	734.81 10.95 745.76	796.01 14.90 810.91	761.64 12.07 773.71	928.23 11.84 940.07	898.76 6.66 905.42	921.51 7.00 928.51
								1		407 00	
Cash expenses: Seed Fertilizer lime, and gypsum	73.02	76.19	31.89	30.69	74.12 29.54	29.76 29.76 35.35	101.35 32.07 89.59	32.14 93.97	31.85 98.75	108.54	49.67
		100.001	102.20		9.34		0	10.10		67.9	
itions 1/ and electricity		26.41	20.69		33.22		7	20.27	9 0	28.76	
		15.12	14.95		37.38		סיוט	41.46	0 0	13.85	
ole cash expenses 2/		0.22	345.67		320.66		0.	346.34	9 0	436.22	
		37.06 12.98	37.76 13.23 134.05	25.20 10.02 77.71	39.65 17.17 52.35	38.78 17.54 39.73	41.23	39.76 17.92 37.19	18.31	27.97 27.55 40.28	27.66
Interest Total, fixed cash expenses	187.30	160.30					-	0 1		, (6
Tetal	522.51	483.05	530.71	447.07	429.83	429.71	452.34	441.21	472.51	٥.	
Cotation of production loss cash expenses	227.38	56.28	237.58	0.	480.	6.	358.57	332.50	11	4.	441.35
Harvest-period price (dollars/lb.) 2,793.20 2,084.	0.27	0.25	0.27	0.24,826.16	0.29	2,635.69	.86	3.00	994.30	0.29	2,792.46
TALL ZED. Down! production economic costs an	costs and returns,	(0)	a and N	th Carol	ina, 19	-92		11 11 11	11 11 10 11 11 11 11 11 11	11 11 11 11 11 11 11	11 10 11 11 10 11 16
	1082	1983	1984	1985	1986	1987	1988	1989	1990	991	1992
ו לפת אין	- 11	, ,,		D00	llars per	planted	acre		 		
Gross value of production: Peanuts Peanut hay Total, gross value of production	741.40 8.49 749.89	525.40 13.93 539.33	754.40 13.89 768.29	686.76 13.32 700.08	900.76	734.81 10.95 745.76	796.01 14.90 810.91	761.64 12.07 773.71	928.23 11.84 940.07	898.76 6.66 905.42	921.51 7.00 928.51
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance	335.21 36.78 12.24	322.75 37.06 12.98	345.67 37.76 13.23 53.98	334.14 25.20 10.02 30.24	320.66 39.65 17.17 57.28	333.66 38.78 17.54 56.60	357.16 41.23 17.83 59.86	346.34 39.76 17.92 61.73	367.40 46.02 18.31 65.40	436.22 27.97 27.55 57.15	398.84 27.66 27.23 60.59
Capital replacement Operating capital Other nonland capital	12.66	10.30	11.99	8.99	9776	12,08	4.5° 82.	18.58 89.05	-01-1		
Land Peanut quota Unpaid labor	15.98 15.98	16.39 544.85	16.20 611.70	17.73 539.71	106	106	730.	107.58 40.22 731.44	പ്പയ		
Total, economic costs	145.05		156.59	160.37	217.33		80.28	42.27	162.1	0 11	0 11
Harvest-period price (dollars/lb.)	0.27	0.25	0.27	0.24	0.29 3,061.27	2,635.6	2,808	0.30	2,99	3,099.17	2,792.46

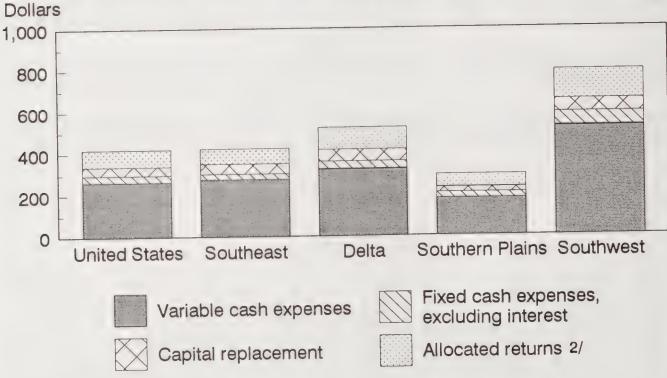
1982 190	1982	1983		85	1986	198		1989	1990	1991	1992
	61 11 11 58 11 11 11 11	64 65 31 11 11 11 11 11	66 81 81 81 81 83 83 83 84 84 84 84 84 84 84 84 84 84 84 84 84	lod	lars per		re				
Gross value of production: Peanuts Peanut hay Total, gross value of production	755.91	632.08	782.24 17.82 800.06	662.70 17.08 679.78	673.03 9.35 682.38	675.26 10.57 685.83	717.16	682.62 11.68 694.30	583.85 11.48 595.33	671.10	806.50 6.39 812.89
Cash expenses: Seed Fertilizer, lime, and gypsum Chemicals Custom operations 1/ Fuel, lube, and electricity Repairs Hired labor Drying Other variable cash expenses 2/	62.59 41.30 101.26 7.34 37.40 17.56 13.59 42.51 77.50	65.37 106.60 7.38 27.66 18.47 13.67 35.30	77.29 41.81 108.81 7.53 22.50 15.95 13.33 41.93	61.54 39.57 108.82 6.62 25.29 15.14 10.27 40.27	25.41 20.68 80.13 9.68 25.41 17.69 23.27 23.27 23.27	28.23 78.23 78.23 17.87 17.87 22.35 17.87 20.00	74.97 34.39 79.50 9.96 32.16 18.93 24.32 24.32 305.48	74, 25 34, 48 83, 23 10, 45 19, 85 29, 53 24, 62 312, 11	76.23 87.57 10.78 35.94 19.97 31.05 16.94 310.38	116.56 45.27 97.63 6.88 31.98 24.43 38.07 13.83	73.88 43.22 101.82 6.50 29.84 25.71 15.01 15.01
General farm overhead Taxes and insurance Interest Total, fixed cash expenses	27.14 9.38 104.25 140.77		28.1 10.1 65.5 03.8	14-1-0	35.07 12.24 74.73 122.04	34.09 12.75 57.26 104.10	36.17 13.01 52.65 101.83	34.88 13.52 53.94 102.34	40.37 13.15 59.35 112.87	19.58 19.62 49.02 88.22	19.36 19.20 40.53 79.09
Total, cash expenses	458.59	60.494	433.29	416.54	403.73	411.27	407.31	414.45	423.25	462.91	413.73
Gross value of production less cash expenses	308.73	06.		263.24	278.65	i	324.21	279.85	172.08	214.29	٠- II
Harvest-period price (dollars/lb.) 0.24 0 Yield (lbs./planted acre) 3,110.11 2,702	3,110.11	.82 .82 	0.24 5,219.14 =======	32.36	0.28	0.28	31	0.27 561.00 ======	0.34 717.20 ======	57	88.33
I tem	1982	1186	1984	1985	198	11 00 1	1988	1989	1990	1991	1992
Gross value of production: Peanuts Peanut hay Total, gross value of production Total,	755.91 11.41 767.32	632.08 17.91 649.99	782 17 800	662.70 17.08 679.78	673.03 9.35 682.38	675.26 10.57 685.83	II ←WN	82.6 11.6 94.3	8,170	671.10 6.10 677.20	70.00 70.00
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Land Peanut quota Unpaid labor Total, economic costs	317.82 27.14 9.38 45.61 13.37 7.97 92.27 14.73	313.79 27.67 10.24 48.16 10.80 7.60 89.73 N/A 14.80 522.80	329.42 28.14 10.17 46.64 12.66 87.71 14.45 538.09	311.62 24.20 10.16 41.69 9.34 7.65 78.84 7.65 7.65 7.65 7.65 7.65 7.65 7.65 7.65	281.69 35.07 12.24 47.36 6.41 9.30 120.72 32.41 595.62	307.17 34.09 12.09 7.89 7.89 7.89 7.89 7.89 120.00 34.01 620.49	305.48 36.17 13.01 50.84 11.41 52.98 122.46 36.07	312.11 34.88 12.88 10.43 10.41 14.52 122.58 122.58 38.24 649.05	310.38 40.37 13.35 10.03 15.87 125.69 44.14 125.69 653.64	374.69 19.58 19.62 34.59 10.19 17.77 118.89 39.67 729.74	334.64 19.36 19.36 36.39 19.62 19.62 119.45 40.75
Residual returns to management and risk	239.03	7.19	261.9	181.25	86.76	65.34	07.76	2.1	- 11	5.1	- 11
Harvest-period price (dollars/lb.) 0.24	3.110.11	0.23	3,219	0.2	0.5		2,556.30	2,561.00	1,717.20	2,485.57	2,688.33

Table 3/APeanut production casii costs aim in	turns, sou				11 11 11 11 11 11 11 11					200	2005
1982 198	1982	м	1984	1985	1986	1987	1988	1989	1990	1861	========
	11 16 11 11 12 12 11 11 11			Doll	lars per p	anted					
Gross value of production: Peanuts Peanut hay Total, gross value of production	378.30 11.99 390.29	417.50 17.98 435.48	456.70 24.89 481.59	464.12 18.71 482.83	545.46 8.45 553.91	502.10 10.73 512.83	501.46 10.88 512.34	564.45 9.75 574.20	780.24 10.48 790.72	569.19 7.88 577.07	564.54 7.28 571.82
Cash expenses:	1		5		75 10	27 25	79 07				58.72
Seed Seed Fertilizer, lime, and gypsum	21.33	20.21	21.72		16.94	16.07	18.66				29.43
Chemicals Custom operations 1/	7.59	8.02	9.31		8.22	80.45	34.73			0 0	44.77
Fuel, lube, and electricity Repairs	22.95	25.18	24.79		20.91	21.28	22.15				36.18
Hired Tabor Drying Other variable cash expenses 2/	17.32 16.87 0.01	18.38 18.38 0.01	18.05 0.01 0.01	19.27	26.17	27.88	26.73	29.83 0.00 245.41	30.46 0.00 250.16	20.52 2.09 339.34	21.89 2.09 311.04
Total, variable cash expenses	702.11	61.212				27 00	24 50				
General farm overhead Taxes and insurance Interest	20.71 8.50 49.66 78.87	21.57 9.43 51.69 82.69	24.06 10.23 51.38 85.67	23.95 11.00 45.34 80.29	21.01 10.41 88.15	73.13	37.20 70.01	38.50	11.23	14.06	13.91 36.54 84.52
וסופול וואפת הפסיו כאלווי	282 08	77 500	315,11	303.23	305.15	310.24	302.72	316.10	327.43	431.81	395.56
Total, cash expenses	207.70		1 4		278.76	202,59	209.65	258.10	463.29		-2
Gross value of production less cash expenses	100.01	140.04	100111			11 11 11 11 11 11 11 11 11 11 11 11 11		- 11		ш	31
Harvest-period price (dollars/lb.) 0.25 0. Yield (lbs./planted acre) 1,523.50 1,668.	1,523.50	0.25	0 0 []	26.11	0.31	1,874.28	0.28	0.28	0.40 ,950.60 2 =======	,032.81	2,171.30
Table 378Peanut production economic costs	and returns	s, Souther	rn Plains,	1982-92		11 11 11 11 11 11 11	61 01 11 10 00 11 11	11 61 61 61 61 61 61	11 11 11 11 11 11	01 61 61 11 11 11 11	11 11 11 11 11
1982 1983	1982	1983	1984	35	19	1987	1988	19	1990	1991	1992
	11 11 11 11 11 11 11 11	11 11 11 11 11 11 11	11 11 11 11 11 11 11 11	OO	llars per	8	e				
Gross value of production: Peanuts Peanut hay Total, gross value of production	378.30 11.99 390.29	417.50 17.98 435.48	456.70 24.89 481.59	464.12 18.71 482.83	545.46 8.45 553.91	502.10 10.73 512.83	501.46 10.88 512.34	564.45 9.75 574.20	780.24 10.48 790.72	569.19 7.88 577.07	564.54 7.28 571.82
Economic (full ownership) costs:	205,11	212		222.94	217.00	237.	232.71	245.41		339.34	
General farm overhead	20.71	22		23.95	21.01	11.	11.31	11.46		14.06	13.91
Capital modernent	46.83	51		56.18	45.35	ခဲ့ ကို င	5.86	7.05		33.05	
Other nonland capital	8.35	ah		80.73	87.48	88	81.67	91.68		86.09	
Peanut quota Unpaid labor Total economic costs	N/A 18.76 380.22		19.74 435.83	21.79 432.20	46.87 535.45	48.57 553.00	48.69	50.65	50.65	43.72	
pesidial returns to management and risk	10.07	33	4	9	18.46	-40.17	-42.11	-12.35	162.80	-116.69	-104.13
Harvest-period price (dollars/lb.)	0.25	0.25	0.27	1,791.96	1,752.30	1,874.28		1,994.53	1,950.60	2,032.81	2,171.30

Cotton Production Regions



Cotton production economic costs per planted acre, 1992 1/



1/ Excluding government payments. 2/ Income foregone by allocating resources owned by the operation (operating and other nonland capital, land, and unpaid labor) to cotton production rather than some other income-producing use.

1982 198	1982	1983	1984	n I	8	1987	1988	1989	1990	1991	1992
	16 11 11 11 11 11 11 11	11 11 11 11 11 11 11 11	Dod	lars per		cre					
Gross value of production (excluding direct Government payments): Cotton Cottonseed Total, gross value of production	319.22 35.16 354.38	312.23 64.82 377.05	318.77 46.48 365.25	330.89 32.97 363.86	225.95 29.73 255.68	446.48 47.13 493.61	314.46 58.58 373.04	362.87 48.57 411.44	404-44 59-20 463-64	338.85 34.42 373.27	280.04 43.10 323.14
Cash expenses: Seed Fertilizer, lime, and gypsum Fhemicals Custom operations Fuel, lube, and electricity Repairs Hired labor Ginning Other variable cash expenses Total variable cash expenses	25.73 17.62 17.62 18.45 18.45 18.45 18.45 18.45 18.53 18.53 18.53	8.35 22.36 48.88 17.11 17.11 19.70 23.28 44.95 7.57	8.96 25.59 51.26 17.67 29.42 19.03 23.16 54.48 7.70	8.75 24.97 52.60 15.37 34.02 19.05 58.50 7.64 245.50	6.23 23.60 44.23 11.91 22.60 19.74 37.69 43.37 8.47	28.16 44.51 13.44 31.153 21.13 40.21 65.39 65.39 65.39	26.39 45.75 13.17 32.87 23.28 41.01 55.77 55.77	28.83 48.71 13.33 34.25 23.64 70.60 50.60 9.30	9.11 26.49 51.42 36.49 24.87 24.87 56.47 271.51	13.30 35.62 48.19 17.29 34.65 23.34 50.41 26.53	13.61 49.697 49.697 17.16 32.01 21.63 29.79 49.38 263.55
General farm overhead Taxes and insurance Interest Total fixed cash expenses	23.88 9.33 54.88 88.09	23.23 9.30 54.76 87.29	24.28 10.06 55.27 89.61	21.16 10.55 45.88 77.59	21.29 12.66 44.01 77.96	21.59 14.13 34.22 69.94	23.46 14.58 31.27 69.31	22.29 15.00 32.20 69.49	25.80 15.14 35.30 76.24	15.67 19.96 21.33 56.96	14.87 19.14 17.72 51.73
Total Cach expenses	323.89	312.21	326.88	323.09	295.80	326.08	325.23	329.53	347.75	323.50	315.28
Gross value of production less cash expenses	30.49	78.79	38.37	~	40.1	~	~	81.91	115.89	49.77	7.86
Harvest-period price (dollars/lb.) 0.58 0. Yield (lbs./planted acre) 550.73 470.	0.58	07.077	0.57 554.65	0.55 598.35	0.49	0.65	593.33	!!	603.64	74.3	560.07
Table 388U.S. cotton production economic costs and returns	osts and r		982-92			11 14 14 11 11 11	10 04 11 15 03 11 11 08	11 13 11 14 11 11 10	11 11 11 11 11	14 11 15 10 11 11	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
I tem	1982	1983	1984	1985	1986		- 61	1989	1990	1991	1992
	11 11 11 11 11 11 11 11	11	D	ollars per	planted						
Gross value of production (excluding direct Government payments): Cotton Cottonseed Total, gross value of production	319.22 35.16 354.38	312.23 64.82 377.05	318.77 46.48 365.25	330.89 32.97 363.86	225.95 29.73 255.68	446.48 47.13 493.61	314.46 58.58 373.04	362.87 48.57 411.44	404.44	338.85 34.42 373.27	280.04 43.10 323.14
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Land 2/ Unpaid labor Total, economic costs	235.80 23.88 23.88 42.58 42.58 6.65 58.00 393.52	227, 22 23, 23 23, 23 44, 88 6, 36 62, 36 62, 36 84, 84 85, 84	237.27 24.28 10.06 44.06 6.67 7.88 60.50 9.46	245.50 21.16 10.55 45.57 5.38 7.66 58.63 404.50	217.84 21.29 12.66 50.35 5.09 8.76 20.65 388.08	256.14 21.59 14.13 14.13 55.16 6.13 9.39 83.85 467.75	255.92 23.46 14.58 14.58 59.78 7.22 71.00 21.66 465.45	260.04 22.29 15.00 62.64 8.92 15.07 73.36	271.51 25.80 15.14 64.69 81.35 17.18 82.38 23.46 508.49	0-W0N-V0W-	
Residual returns to management and risk	-39.14	-9.79	-34	-40.6	-132.40	25	7:	-68.59	-44.85	211	0
Harvest-period price (dollars/lb.) 0.58 0	0.58		L	598.		684.6	593.33	0.66	603.64	0.59 574.32	560.07

Gross value of production			1111111	1 1 1							
iross value of production		1	11 -		a potent						
			Dou	_	פוורפת פ	ט		1	7	76	
Cotton Cottonsed Total, gross value of production	427.81 35.27 463.08	269.57 52.97 322.54	412.84 49.64 462.48	398.45 28.95 427.40	223.26 23.04 246.30	396.01 34.63 430.64	257.84 42.53 300.37	43.41	330.96 380.96	29.23	421.49
o voored vo		1						2 4	7.74	8.45	
Seed	5.23	5.52						34.87	31.73	47.61	
Fertilizer, time, and gypsum Chemicals	101.31	105.12						103.30	108.90 8.23	12.62	13.29
Custom operations	14.03	74.27					4 0	23.84	28.61	24.76	
Fuel, lube, and electricity	18.66	19.10	0 0					23.34	51.81	28.54	
Hired Labor	15.81	15.72					0 0	48.28	42.28	57.39	
Ginning Other variable cash expenses 1/	1.82	1.83	1.86	1.85	0.00	0.00	276.96	299.16	303.74	271.78	275.91
lotat, Variable casii caprisco	47 ZE		-		1	1	0.	M	6.0	NI.	10,1
General farm overhead	8.85	0 5	- 21	· - ·	Nic		14.10	14.94	15.25	17.05	20.80
Interest	66.42	67.61	45.30	71.51	56.28	62.65	7.	0.	2	4	7.9
lotal, Tixed cash expenses		0	u	9"	212 02	02 962	325.43	350.14	359.36	326.35	323.82
Total, cash expenses	384.08	558.19	3/1.30	7	16.7			1	,	7	
Gross value of production less cash expenses 79.00	1	-35.65		56.15	9 !!	104.25	0 !!	0 1	21.60	129.09	70.7%
Control of the contro	11		0.58	0.5	0	00	0	0	500.50	0.63	677.71
(ield (lbs./planted acre)	739.39 400	0 11	713.34		457.82	003.00	: !!	0		. !!	
Table ZobCotton production economic costs and returns,	nd returns	s, Souther	t,						- 41	11 14 11 11 11 11 11	11 18 11 11 11 11 11
			11 11 11 11 11 11 11 11 11 11 11 11 11		1084	1087	988		1	1991	1992
I tem	1982	1983		707	2 !!	N 11	11	11	11 11 11 11 11 11 11		
			٥	ars p	lanted	2					
Gross value of production (excluding direct Government payments):		-		0	N						10
Cotton	427.81	52.97	79.67	28.95	23.04	34.63	42.53	43.41	380 96	29.23	421.49
Total, gross value of production	463.08	S	N.	4.	ó		,				
Economic (full ownership) costs:	201 46	263_80	298.23		9		276.96	299.16			Ork
Variable cash expenses General farm overhead	17.35	17.40	17.79				14.01	13.84	15.25	17.05	15.59
	52.00	53.82	55.95	9 9	i		67.97	73.71			
Operating capital	8.82	8.9	7.91	- 0	r c		14.62	17.46			0
Other nonland capital	8,15	47.88	54.78		-		43.95	49.90			4-4
Land 2/ Unpaid labor	6.46	6.42	6.33	09.9	16.46	17.34	457.86	501.38			- 60
Total, economic costs	441.09	413.61	1					1	0	22 20	72 6-
Residual returns to management and risk	15.19		1.34	-30.99		- 19.10	4	- 11		0 11	
Harvest-period price (dollars/lb.) 0.58 739.39 40	0.58	00.007	IN M	728	0.49	0.66	0.53	586.85	509.39	0.63	677.71

I tem 1982	1982	1983	198	19	1986	1987	1988	1989	1990	1991	7661
	11 11 11 12 11 11 11		Dol	lars per	planted a	e e					
Gross value of production (excluding direct Government payments): Cotton Cottonseed Total, gross value of production	426.17 36.70 462.87	359.38 70.01 429.39	378.68 43.97 422.65	366.24 26.90 393.14	273.78 29.10 302.88	502.38 47.43 549.81	350.43 57.91 408.34	415.75 52.44 468.19	430.61 59.93 490.54	502.79 40.18 542.97	331.47 50.70 382.17
											1
Cash expenses:	6.20					7.65	35.00		8.57	43.86	45.36
Fertilizer, time, and gypsum Chemicals	78.42					70.14	71.17		78.75	89.89	20.78
Custom operations	11.85 28.38					25.75	27.10		31.38	29.54	27.31
Repairs	20.92					74.41 40.83	41.32		47.45	45.14	46.67
Hired labor Ginning Other variable cash expenses 1/	55.09	43.18	57.08 2.53 260.44	56.83 2.51 259.67	43.36 0.00 246.24	60.74 0.00 271.08	52.14 0.00 275.62	50.34	51.40 0.00 294.71	62.83 0.01 334.25	60-71 0-01 324.48
Total, Variable cash expenses		. ,									
General farm overhead Taxes and insurance Interest	23.23 8.52 75.89	23.23 9.02 51.30	23.67 9.58 63.68	20.04	13.12	13.87 32.34 37.34	14.85 29.34 26.34	30.31	33.25	18.98 28.16 63.34	19.79 23.08 58.25
Total, fixed cash expenses	107.64		8				, ·		70 77	1	
Total, cash expenses	363.35	324.57	357.37	335.34	323.58	337.83	341.72	346.03	300.90	391.39	
cross value of production less cash expenses	99.52			7.8	20.	11.	9	21	MI	145.38	-0.56
		0	11 12	II rc	7	11 4	11 5	11 0	0.65	0.6	
Harvest-period price (dollars/lb.) Yield (lbs./planted acre)	732.53	541.26	690.95	674.14	565.15	779.91	661.18	649.61	662.47	824.25	676.47
		i									
Table 408Cotton production economic costs and returns, D	ind return	el	-286			1	11	11 11 11 11 11 11	11 11 11 11 11 11 11 11 11 11 11 11 11	11	11
Item	1982	198	1984	198	1986	-	1988	1989	1990	1991	1992
	11 14 14 11 11 11 11	10 10 11 11 11 11 11	Dod	lars per	planted						
Gross value of production (excluding direct Government payments): Cotton Cottonseed Total, gross value of production	426.17 36.70 462.87	359.38 70.01 429.39	378.68 43.97 422.65	366.24 26.90 393.14	273.78 29.10 302.88	502.38 47.43 549.81	350.43 57.91 408.34	415.75 52.44 468.19	430.61 59.93 490.54	502.79 40.18 542.97	331.47 50.70 382.17
							,	0	- 1		
Economic (Tull OwnerShip) costs: Variable cash expenses General farm overhead Taxes and insurance	255.71 23.23 8.52	241.02 23.23 9.02	23.67	259.67	246.24 21.32 13.12 56.25	271.08 20.54 13.87 59.38	275.62 21.91 14.85 67.86	279.96 21.02 14.74 67.09	24.33 14.72 67.85	16.20 18.20 18.98 63.58	15.38 19.79 57.86
Capital replacement Operating capital	7.30	7.7.	900	14.4		800	4.	8.54	wai	9 4	
Other nonland capital Land 2/ Unpaid labor	66.20	60.		01	000	1.6	مند	21.92	DWO	p p 4	
Total, economic costs	428.55	408.	2 6	0 4	i o	י נ	, -	-54.52	52.4		0,
Residual returns to management and risk 34.	34.54	0	II O	2) II '	7 11 0	- II L	- 11	11 7	11	7 0
Harvest-period price (dollars/lb.)	0.58	541.2	0.55	0.54	565.15	779.91	661.18	649.61	662.47	824.25	676.47

172.93 41.39 214.32 8.56 8.56 24.14 7.92 26.14 16.14 18.06 29.95 1.39 141.55 37.03 37.03 178.58 178.58 178.58 178.58	169.33 29.27 198.60 24.72 24.72 15.14 17.14 17.14 17.14 17.14 17.14 16.65 16.65 16.65	ars per pl 20.80 20.80 20.80 9.51 9.49 24.16 7.14 26.53 14.99 26.53 17.02 1.40 1.53.36 11.02 7.01 27.56 27.56 27.56 27.56 27.56 27.56 27.56 27.56 27.56	6.18 6.18 12.24 12.24 12.24 18.82 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.54 17.54 11.04 11	88.44 1.12 1.12 1.23 1.23 1.23 1.23 1.23 1.23		8.36 47.28 5.02 6.15 6.15 6.15 6.15 7.28 58.00 58.00 58.00 58.00	276.34 41.53 317.57 12.36 11.36 11.36 29.02 29.02 46.76 179.59 179.59		112.92
value of production luding direct Government payments):	29.27 29.27 29.27 24.46 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.0	99.09 12 20.80 19.89 13 9.49 24.16 7.14 26.53 14.99 39.90 11.02 7.01 7.01 7.01 7.01 7.01 7.01 7.01 7.01	3.64 29 4.63 33 8.27 32 5.24 1 8.82 1 8.82 1 10.06 1 10.24 1 112.60 1 12.60 1	7.50 7.50 7.50 7.50 1.12 8.44 8.31 1.29 1.29 1.47 1.29	5.47 22.14 8.61 9.44 2.69 8.67 7.91 7.70 7.70 6.87 6.84 16.54	6.15 6.15 6.15 6.15 6.15 6.15 6.15 6.00 6.50 6.50 6.50 6.50 6.50	2.22.30 2.00.00.00 2.00.00.00 2.00.00.00 2.00.	401	2.0
10.23 9.25 10.20 8.56 21.20 24.14 6.97 7.92 26.57 26.14 14.37 16.14 17.58 18.06 27.24 29.95 19.07 27.24 29.95 19.07 27.24 29.95 19.08 19.08 19.08 19.08 19.08 10.0	24.46 8.00 24.46 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	. 51 . 16 . 14 . 16 . 16 . 16 . 16 . 16 . 16 . 16 . 16	2.24 8.82 8.882 8.885 10.06 10.06 10.06 12.60 12.60 12.60 12.60 12.60 12.60 13.18 12.60 13.18 13	8 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	25.25.25.35.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	77.77	25.25		0.0
10.23 9.25 10.20 24.14 21.20 24.14 6.97 7.92 8.56 21.20 24.14 6.97 7.92 26.57 26.14 17.58 18.06 27.24 29.95 19.16 cash expenses 1/ 135.74 141.55 10.26 8.56 10.20 24.14 17.58 18.06 27.24 29.95 1390 1380 1380 1380 1380 1380 1380 1380 138	9.57 24.48 8.00 8.00 1.7.71 17.71 146.60 1.46.60 1.60 1.60 1.60 1.60 1.60 1.60 1.60	. 51 . 49 . 16 . 16 . 16 . 16 . 16 . 16 . 16 . 16	6.18 8.82 8.885 16.55 16.55 17.90 10.04 10	8 8 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22.22.22.22.22.22.22.22.22.22.22.22.22.	77.73	200000000000000000000000000000000000000	r	
21.20 24.14 6.97 7.92 26.57 26.14 14.37 16.14 17.58 18.06 27.24 29.95 135.74 141.55 8.60 9.03 8.60 9.03 5.85 6.25 35.13 37.03 170.87 178.58 -14.60 35.74 0.51 0.60 267.63 287.70 and returns, South	24.46 8.00 8.00 17.71 17.71 15.14 146.66 19.77 19.7 19.7 19.7 181.9	16 114 114 114 116 116 116 116 116 116 1	8.82 8.85 16.52 16.52 77.54 17.54 17.60 17	8 8 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	22.22.22.22.22.22.22.22.22.22.22.22.22.	223	252 50000 4500	22.28	20.96
26.77 14.57 17.58 18.06 27.24 29.95 135.74 141.55 8.60 8.60 8.60 9.03 5.85 6.25 20.68 21.75 35.13 37.03 170.87 178.58 176.87 170.87 178.58 176.83 176.84 176.85 176.85 176.85 176.85 176.85 177.85 176	24.77.77.77.77.77.77.77.77.77.77.77.77.77		20.06 26.52 27.56 27.54 12.60 10.04 25.64 93.18 2	8 8 4 7 N T T T T T T T T T T T T T T T T T T	22.77	223	7000,000	00	56.
17.58 18.06 27.54 29.95 135.74 141.55 135.74 141.55 8.60 9.03 5.85 6.25 20.68 21.75 35.13 37.03 170.87 178.58 -14.60 35.74 -14.60 35.74 and returns, South	35.66	24.83 1.02 1.02 1.02 1.02 1.03 1.04 1.03 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05	25.73 27.90 27.90 12.60 10.04 10.04 33.00 55.64 93.18 2 64.91 1	8 3773 7450	5.34.00	23.	25.26		000
135.74 17.39 135.74 141.55 8.60 9.03 5.85 6.25 20.68 21.75 35.13 37.03 170.87 178.58 -14.60 35.74 0.51 0.60 267.63 287.70	146.64		12.60 12.60 13.00 55.64 93.18 2 54.91 1	8 8 7 7 3 4 6	22.40	112.	25.26		VIVO
8.60 9.03 5.85 6.25 20.68 21.75 35.13 37.03 170.87 178.58 -14.60 35.74 0.51 0.60 267.63 287.70 and returns, South	19.7 19.7 35.2 181.9 16.6	2.33 1 7.56	12.60 10.04 33.00 55.64 93.18 2 54.91 1 0.49 4 53.48 4	8 37.7.3	6.5	112.	25.26	20	$\supset \infty$
5.85 6.25 20.68 21.75 35.13 37.03 170.87 178.58 -14.60 35.74 0.51 0.60 267.63 287.70 and returns, South	19.7 35.2 181.9 16.6 322.7	7.01 3.97 7.56 -	55.64 93.18 2 54.91 1 0.49 4	8 3 7 7 0	- 6 62 - 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	47.	23.7	3.4	10
35.13 37.03 170.87 178.58 -14.60 35.74 0.51 0.60 267.63 287.70 and returns, South	181.9 16.6 322.7	2.33 1 7.56	55.64 93.18 2 54.91 1 0.49 4 53.48 4	8 8 0 4 0	0 0	· !	7	11.30	101
170.87 178.58 -14.60 35.74 0.51 0.60 267.63 287.70 and returns, South	16.6	7.56	54.91 1 ======== 0.49 4 53.48 4	4.0	6.5		1	- 6	,
-14.60 35.74 0.51 0.60 267.63 287.70 and returns, South	16.6 0.5 322.7	7.56	54.91 1 0.49 4 53.48 4			205.65	231.78	558.54	-
267.63 287.70 267.63 287.70 and returns, South	322.7	0.53	0.49 53.48 4	0 1	32.07	10.50	85.79	-36.63	0
267.63 287.70	322.7	4.83	55.48 4		4.0	9.00	0 0		0.45
mic costs and returns, South				0 11	7.6	11 0		- 11 - 11	11 11 11 11 11
41BCotton production economic costs and returns, South Litem Value of production Uding direct Government payments):									
value of production	nern Pl	11	11 11 16 16 17 17 17 17	11 11 11 11 11	(# 16 16 11 11 11 11 12	11		H H	H 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
	3 1984	1985	1986	1987	1988	1989	1990	166	7661
	00	lars per p	lanted acr	a					
137.64 172.9	3 169.3	0	3.64 2	95.2		0.6	276.34	172.29	112.92
Cottonseed 18.63 41.39 Total, gross value of production 156.27 214.32	2 29.27	20.80	14.65	32.27 27.50	248.61	216.15	17.5	1.7	3.0
p) costs: 125 7/ 1/15	777	K	~	0	9.7	m	N.	7.2	21.
expenses 133.74 141.3	200	100			0.4	oi-	No	5.3	-01
Taxes and insurance 28.84 32.57 Capital replacement 28.84 32.57	33.14	35.60	42.26	43.61	46.00	49.04	52.24	27.26	3.18
onland capital	10,1	-		1	887	-0	るし	2.5	76
28.23 58.8	34.0	100,	770		a		0, -	7.1	80.0
economic costs 244.2	0-147-0		76.0	7 1	, (: £1	α	-
61 -29.9	7- 5	- 44.06 -	11 11	0 !!	7 !!	A III	. II.	0 11 0	1110
0.6	0 322.7	0.53	253.48	470.63	439.29	298.42	438.63	307.66	250.93

Table 42ACotton production cash costs and returns, South	turns, Sou	thwest,	1982-92	11 11 11 11 11	11 11 11 11 11 11 11	11 11 11 11 11 11 11 11 11 11 11 11 11	11 10 11 11 11 11	ii ii ii ii ii ii ii ii ii		11 11 11 11 11 11	
I tem	1982	10	-	1985	1986	1987	1988	1989	1990	1991	1992
	11 11 11 11 11 11 11 11 11		Doll	Per	lanted a	J.					
Gross value of production (excluding direct Government payments): Cotton Cottonseed Total, gross value of production	671.15 80.88 752.03	742.88 142.72 885.60	678.84 104.73 783.57	673.69 84.43 758.12	547.02 93.80 640.82	876.89 101.19 978.08	639.70 121.05 760.75	828.05 100.91 928.96	841.11 131.00 972.11	719.53 96.11 815.64	617.53 116.48 734.01
Cash expenses: Seed Seed Fertilizer, lime, and gypsum Chemicals Custom operations Fuel, lube, and electricity Repairs Hired labor Ginning Other variable cash expenses Total variable cash expenses	7.68 59.37 67.33 56.36 76.45 27.01 48.12 105.17 37.76	9.13 47.18 69.91 56.24 72.75 29.43 49.95 103.26 37.89	8.34 50.80 70.38 57.6 64.16 26.31 49.48 108.66 38.55 474.27	8.57 49.89 69.61 69.61 27.11 51.92 119.26 38.24 497.86	8.41 53.78 69.60 26.44 41.37 26.46 76.22 107.56 60.25	8.76 49.59 68.25 26.53 68.67 29.71 79.73 122.56 57.15	9.29 54.40 70.27 26.27 71.32 31.39 82.69 97.95 56.97	10.31 58.83 77.55 76.27 34.22 86.88 113.62 58.34 544.75	11.23 58.11 80.42 29.47 76.76 35.44 87.36 109.56 60.93	13.98 59.90 50.05 57.74 47.03 33.31 121.06 97.75 47.67	14.96 57.53 49.38 58.65 43.68 30.49 101.65 47.67
General farm overhead Taxes and insurance Interest Total fixed cash expenses	70.98 20.56 122.94 214.48	74.27 20.18 168.45 262.90	76.81 22.32 161.91 261.04	56.39 22.64 131.00 210.03	59.03 22.23 95.60 176.86	57.76 24.28 73.77 155.81	62.61 24.66 66.97 154.24	59.75 25.85 69.20 154.80	69.16 26.74 76.18 172.08	29.58 43.58 45.18 118.34	28.08 39.49 37.03 104.60
מסטפטאס ליפין ביינד	699.73	738.64	735.31	707.89	646.95	92.999	62.79	95.99	721.36	646.83	628.07
Gross value of production less cash expenses	52.30		8.2	2	-6.1	-	05.	229.41	250.75	168.81	105.94
Harvest-period price (dollars/lb.) 0.63 Yield (lbs./planted acre) 1,073.72	1,073.72	0.72	0.65	0.59	0.49 1,112.37	1,269.99	0.62	1001	0.74	8.1	
Table 428Cotton production economic costs and returns, Southw	nd return	s, Southwe	st, 1982	25		1	1.		11 11 11 11 11	01 11 10 01 11 88 00	11
I tem	1982	1983	1984	1985	1986	19	988	19	- 11	1991	1992
Gross value of production (excluding direct Government payments): 671.15 7 Cottonseed 80.88 1 Total, gross value of production 752.03 8	671.15 80.88 752.03	742.88 142.72 885.60	678.84 104.73 783.57	673.69 84.43 758.12	547.02 93.80 640.82	acre 876.89 101.19 978.08	639.70 121.05 760.75	ii	841.11 131.00 972.11	1	6.4
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land 2/ Unpaid labor Total, economic costs	485.25 70.98 20.56 67.11 16.59 134.51 19.66 825.10	475.74 74.27 20.18 71.74 12.63 10.26 154.00 20.40 839.21	474.27 76.81 22.32 65.46 14.80 142.27 20.21 827.19	497.86 56.39 22.64 67.09 11.62 127.59 21.21 815.84	470.09 52.23 28.43 68.45 11.07 11.43 98.42 767.68	510.95 57.76 24.28 83.51 13.17 13.40 115.37 28.24 846.68	500.55 62.61 24.66 88.31 15.64 16.52 111.27 28.77 848.33	544.75 59.75 25.85 95.16 19.32 126.35 923.54	549.28 69.16 26.74 98.80 18.27 24.64 117.41 30.79 935.09	528.49 29.58 43.58 67.06 14.37 24.52 66.25 47.44	523.47 28.08 39.49 61.39 61.39 61.13 48.79 794.14
Residual returns to management and risk	-73.07	6.3	3.6	-57.72	-126.86	131.40	-87.58	5.42	37.02	-5.65	- 1
Harvest-period price (dollars/lb.) Yield (lbs./planted acre)	0.63	3.17	1,044	0.5		1,269.99	1,031.77	1,182.93	1,136.63	0.68 1,058.13 =======	1,083.39
1/ Cost of custom operations and purchased i	rrigation		La	sts on l	and basis.	1	 				

Milk Production Regions

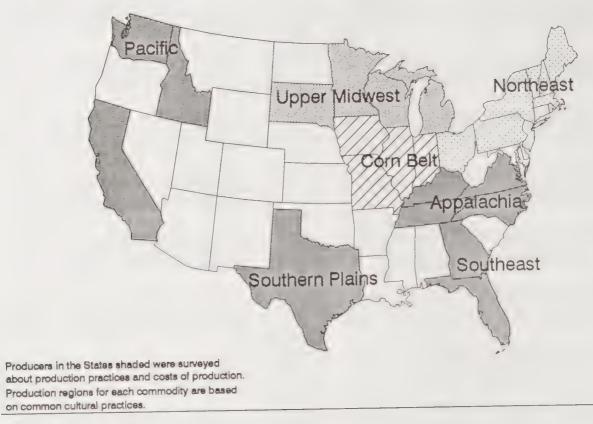
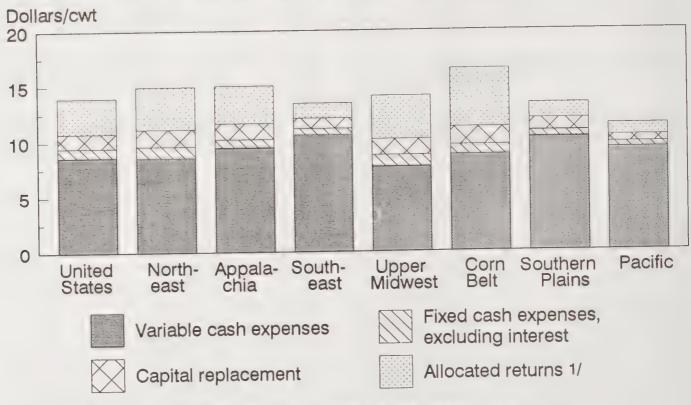


Figure 24
Milk production economic costs per cwt, 1992



1/ Income foregone by allocating resources owned by the operation (operating and other nonland capital, land, and unpaid labor) to milk production rather than some other income-producing use.

Table 43AU.S. milk production cash costs and returns, pe	eturns, F ====================================	per CHT,	1982-92	1985	1986	1987	1988	1989	1990	1991	1992
			11 11 11 11 11 11 11 11	11 14 15 10 11 11 11	0	ollars	11 15 11 11 11 11 11 11	11 10 61 11 11 11 11 11 11	13 61 61 61 61 61 61 61	14 11 16 16 16 11 11	
					•			ı			4
Gross value of production:	13.52	13.50				12.48	12.20	13.53	13.70	12.24	15.15
Cattle	1.14					-0		٦.			
Other income 1/ Total, gross value of production	14.66	14.59	14.45	13.74	すっ	9		0.			ů.
Feed	1		7 / 7								
Concentrates	2.60			0.21	0.20	81.0	0.25	0.27	0.28	0.29	0.29
Hay	0.0 %.2	0.85	0.82		8 (0 0	0 0	
Silage Pasture and other forage	0.0		0 0								
Other	0.45		7								
Artificial insemination	0.12		4								
Veterinary and medicine	0.0		,0		8 8						
Fuel, lube, and electricity.	0.40		שומ		9 (0 1		8 0	6 8		
Machinery and building repairs	0.87		10.			0.68	0.69	0.71	0.0	0.0	0°0,0
DHIA fees	0.05		7-			8 9		6 6	0 8		0
Dairy supplies	0.00									9 1	0 0
Other variable cash expenses 2/	0.00	0.00	0.00 8.07	8.04	7.86						
מומני אמן ומצור המוני אוריים	0,60			5	ιŲ	~				4,	
General Tarm Overnead Taxes and insurance	0.35	0.36	0.34	0.37	0.35	0.35	0.39	0.39	0.83	0.78	0.66
Interest Total fixed cash expenses	2.51	Ü.4.	0 0	iw.	٠.	.0.			8	9.	
SOUGHAND HOSE TOPE	06.6	10.39	10.64	10.35	10.03	9.59	10.66	10.60	10.65	10.41	10.14
	, 7,		7 80	2 30	٤7 ك	70.0	2.78	4.41	4.62	3.32	
Gross value of production less cash expenses	4.70		3.00	3 !!	•	- 11	- 11	-	11	81	11 11 11 11 11
				ç							
Table 438U.S. milk production economic costs and returns	and retu	rns, per	CML, 1700	7.5	11 11 11 11 11			=======================================	10000	1001	1002
Item	1982		1984	198	1986	1987	1988	1989	1990	1331	1776
			1			Dollars					
Gross value of production:	13.52				4.0			N			0 6
come	0.00	0.00	0.00	0.00 27.	0.00	13.65	13.44	0.12	0.14	13.73	~ W
Total, gross value of production	8.4		•		•	•					
Economic (full ownership) costs: Variable cash expenses	7.39							8 1			
General farm overhead Taxes and insurance	0.35	0.36	0.34	0.37	0.35	0.35	0.39	0.39	0.37	0.39	0.39
Capital replacement Operating capital	0.12			8 6				0 1			
Other nonland capital	1.04		8 8								
Unpaid labor Total economic costs	12.94										1 6
xi and transport of south and risk	1.72	1.27	0.93	89.0	.7	1.13		0.70	0.54	-0.41	0.64
	11	11					11 11 11 11 11 11 11				
See footnotes at end of Table 508.											

1982 198	1982	2	1984	198	86	198	1988	1989	1990	1991	1992
	11 11 13 14 11 11 11	ii 16 11	65 11 11 10 10 11 11 11 11 11	11 11 11 11 11 11 11 11	0	ollars	1				
Gross value of production: Milk Cattle Other income 1/ Total, gross value of production	13.89 1.10 0.00 14.99	13.88 1.03 0.00 14.91	13.74	12.99 0.99 0.00 13.98	12.77 0.95 0.00 13.72	12.9	12.63 1.16 0.00 13.79	14.17 1.24 0.09 15.50	14.60 1.33 0.11 16.04	12.83 1.27 0.10 14.20	13.78 1.16 0.13 15.07
Cash expenses: Feed Concentrates By-products Hay Silage	3.40	3.47	3.53	3.10 0.64 0.63	2.97 0.11 0.63 0.04	2.93 0.10 0.62 0.56	3.30 0.71 0.70 0.05	3.89 0.08 0.85 1.01	3.73 0.07 0.93 0.11	3.72	3.60 0.07 0.94 0.11
Other and other totage Other- Milk hauling and marketing Artificial insemination Veterinary and medicine Livestock hauling Fuel tube, and electricity Machinery and building repairs Hired tabor DHIA fees Dairy supplies Dairy sasessment Other variable cash expenses	0.0000000000000000000000000000000000000				0.24 0.28 0.28 0.38 0.07 0.00 0.20	0.78 0.02 0.03 0.03 0.05 0.00 7.22	0.72 0.03 0.03 0.03 0.03 0.03 7.7	0.062 0.022 0.028 0.050 0.050 0.002 0.002 0.003	0.64 0.15 0.02 0.03 0.05 0.05 0.07 0.01 8.61	0.63 0.14 0.21 0.02 0.55 0.05 0.05 0.05 8.87	0.05 0.02 0.02 0.03 0.03 0.03 0.03 0.03 0.03
General farm overhead Taxes and insurance Interest	0.55	0.51	0.63 0.33 1.12 2.08	0.59 0.41 0.97	0.59	0.85 0.39 0.91 2.15	0.89 0.40 0.92 2.21	0.49	0.61	0.55 0.53 0.78 1.86	0.53
וואכת רפטון באלינונים	9.53	- 4	10.27		9.39	9.37	9.92	10.51	10.56	10.73	10.24
Gross value of production less cash expenses	5.46	4.	4.48	4.55	4.33	7.66	3.87	4.99	5.48	3.47	4.83
Table 448Milk broduction economic costs and r	returns,	ř.	Northeas	0			11 13 11 11 11 11 11	11 11 10 11 11 11	61 11 15 10 11 11	11 10 11 11 10 11 10 11	11 11 11 11 11 11
1982 19	1982	83	1984	1985	1986	1987	1988	1989	1990	1991	1992
Gross value of production: Milk Cattle Other income Total, gross value of production	13.89	8888	13.74 1.01 0.00 14.75			0	12.63 1.16 0.00 13.79	14.17 1.24 0.09 15.50	14.60 1.33 0.11 16.04	12.83 1.27 0.10 14.20	13.78 1.16 0.13 15.07
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Land Unpaid labor Total, economic costs	7.56 0.32 1.58 1.07 1.07 1.59	8.01 0.34 1.60 1.00 1.02 0.28 13.46	8.19 0.63 1.60 0.15 0.28 13.81	7.47 0.59 0.41 1.84 12.98	7.45 0.64 0.33 1.77 0.05 0.16 1.89	7.22 0.39 0.39 0.06 0.06 0.19 1.82	7.71 0.89 0.40 1.78 0.07 13.81	8.72 0.53 1.76 0.09 0.09 0.45 15.13	8.61 0.051 0.08 0.08 1.21 0.22 15.20	8.87 0.535 1.63 0.06 1.07 15.36	n'in'in'o o w w o
	00	1 1.5	70 U	1.00	0.83	1.18	-0.02	0.37	0.36	-1.28	0.10

of production: of production: gross value of production rates lucts	2	765	1704	202	3				31 11 11 11 11 11 11 11		
misk his production: Misk hisk 0.9 Cattle 0.0 Other income 1/ Total, gross value of production 14.8 Cash expenses: Feed Concentrates By-products By-products By-products						. 11	11 11 11 11 11 11 11 11 11 11 11 11 11	1	1		11 13 14 15 16 18
value of production: tile er income 1/ otal, gross value of production 1 expenses: concentrates sy-products					ŏ	ollars					
S S	2004 5004	1 94 1 1 88 1	3.98 0.92 4.90	13.48 0.71 0.00 14.19	13.10 0.64 0.00 13.74	13.51 0.77 0.00 14.28	13.25 0.81 0.00 14.06	14.07 1.31 0.16 15.54	14.80 1.38 0.18 16.36	13.00 1.30 0.18 14.48	14.13 1.23 0.20 15.56
	4.10 4 0.67 0 0.66 0	.39 .74 .68	4.44 0.68 0.77 0.15	3.74 0.18 0.68 0.08	3.60 0.17 0.78 0.08	3.55 0.18 0.69 0.71	4.08 0.18 0.82 0.08	4.15 0.29 0.78 0.10	4.13 0.29 0.93 0.10	3.99	
Other Milk hauling and marketing Artificial insemination Veterinary and medicine Livestock hauling Fuel Lube, and electricity Machinery and building repairs	2501725	1777	0.13 0.01 0.33 0.33	0.00	0.59 0.08 0.15 0.02 0.17	0.08	000000000000000000000000000000000000000	0.80 0.23 0.31 0.43	0.82 0.13 0.03 0.03 1.21	00.021220000.2144	000001 000001 000001 000001 000001 00001 00001 00001 00001 00001 00001 000001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 000000
27				30,4, 0,4							
		0.41 0.32 1.13	0.58 0.26 1.22 2.06	0.44 0.37 1.39 2.20	0.50 0.38 0.96	0.69	0.79	0.40	0.49	1 1 1 1	
	10.53 1	1.33	11.71	10.45	10.17	10.18	10.58	10.97	11.18	11.00	10.68
Gross value of production less cash expenses 4.	4.34	3.55	3.19	3.74	3.57	4.10	3.48	4.57	5.18	3.48	4.88
Table /spwilk production economic costs and returns,	rns, per	CWt, A		, 1982-9	2	11 11 11 11 11	11 10 11 11 11 11 11	10 10 11 11 11 11 11 11	11 11 10 11 11 11	11 11 11 11 11 11 11	11 11 11 11 11 11 11 11
I tem	11	1983	1984	1985	188	198		1989	1990	1991	1992
Gross value of production: Milk Cattle Other income Total, gross value of production 13.92 0.95 14.87	13.92 1 0.95 0.00 14.87 1	0.09	13.98 0.92 0.00 14.90	13.48 0.71 0.00 14.19	13.10 0.64 0.00 13.74	<u> </u>	13.25 0.81 0.00 14.06	14.07 1.31 0.16 15.54	14.80 1.38 0.18 16.36	13.00 1.30 0.18 14.48	14.13 1.23 0.20 15.56
costs:	8.56 0.55 0.55 0.13 1.09 1.09	7.17 00.47 1.19 1.19 4.19	9.65 0.58 0.58 1.45 0.90 0.47	8.25 0.37 1.50 0.51 0.51 1.69	8.33 0.50 0.38 1.46 0.50 0.50 0.33 13.22	8.03 0.69 0.36 1.43 0.56 0.30 1.72 13.15	8.69 0.37 0.37 1.47 0.08 0.67 1.78 1.78	9.71 0.40 1.63 0.10 0.77 0.64 15.29	9.79 0.29 1.90 0.09 0.09 1.76 1.76	9.69 0.44 0.30 1.50 0.07 0.07 0.085 1.90 1.90	9.47 0.42 1.45 0.03 0.04 1.90 1.90
Total, economic costs	1.43				0.52	1.13	-0.13	0.25	0.50	-0.88	0.53

				۵	ollars			
Gross value of production: Milk Cattle Other income 1/	15.51	15.30	15.11	15.27 1.31 0.00	15.59	16.50 1.18 0.03	14.46	15.42 0.99 0.07
Cash expenses:					•	1	,	
Feed Concentrates By-products	6.29	5.43	4.86 0.41 7.77	5.85	7.29	6.98 0.38	7.27	5.73
Nay Silage Pasture and other forage	04-					8 6 8		0.30
Other Milk hauling and marketing Artificial insemination Veterinary and medicine Livestock hauling	0.07	0.082	0.084	0.00	0.00	0.000	0.68 0.19 0.01	0.00000
Machinery and building repairs Hired labor DAIA fees Dairy supplies								
Dairy assessment Other variable cash expenses Total, variable cash expenses								
General farm overhead Taxes and insurance Interest Total fixed cash expenses	0.22	0.24	0.29	0.35	0.28 0.28 0.63	0.33	0.31 0.28 0.63 1.22	0.28 0.28 1.08
Total, cash expenses	0	12.20	10.88	11.80	13.75	13.59	13.28	11.65
Gross value of production less cash expenses	3.83	60.4	5.40	4.78	3.02	4.12	2.34	4.83
production economic costs an	urns,	per cwt,	(7)	1985-9				
	II LO	1986	1987	198	19	1990	1	
Gross value of production:	11		11	L	lars	C 1	1/ /6	ñ
Milk Cattle Other income Total, gross value of production	1.05	0.98 0.98 16.28	1.17	1.31	1.15	1.18	15.62	16.48
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement	0.22	10.54 0.24 0.25 0.87	90000 90000 90000 90000	10.67 0.35 0.26 0.88	12.56 0.28 1.12 0.13	12.34 0.33 0.26 1.27 0.12	12.06 0.31 0.02 0.08	10.57 0.28 0.28 0.95 0.05
Other nonland capital Land Unpaid labor Total economic costs	0.35						410-	4004
	20 0	70 7	7. 04	2 08	1 10	2,02	0.51	3.07

Table 4/AMilk production cash costs and											
	1982	8	1984	1985	1986	1987	1988	1989	1770	=======================================	11 11 11 11 11 11
	11 11 11 11 11 11 11 11	11 11 11 11 11 11	11 11 11 11 11 11 11 11	16 12 10 10 11 11 11 11		llar					
Gross value of production: Milk Cattle Other income 1/ Total, gross value of production	13.19 1.37 0.00 14.56	13.18 1.30 0.00 14.48	13.07 1.28 0.00 14.35	12.25 1.15 0.00 13.40	12.11 1.12 0.00 13.23	12.11 1.29 0.00 13.40	11.92	13.35	13.50 1.73 0.18 15.41	12.04 1.63 0.17 13.84	13.11 1.56 0.19 14.86
Cash expenses: Feed Concentrates By-products Hay Silage	2.75 0.55 0.02	2.90 0.53 0.62 0.02	2.96 0.53 0.05 0.02	2.88 0.14 0.76 0.05	2.81 0.14 0.97 0.06	2.76 0.12 0.95 0.05	2.99 0.15 1.34 0.08	3.12 0.08 1.30 0.04	3.13 0.08 1.20 1.05 0.03	-0000	80000
Pasture and other for age Other Milk hauling and marketing Artificial insemination Veterinary and medicine Livestock hauling Fuel, lube, and electricity Machinery and building repairs Hired labor	0.0322		0.31 0.24 0.03 0.38 0.67	0.12	0.12	0.12 0.12 0.04 0.02 0.65	00.000000000000000000000000000000000000	0.14	00.000 0.0000 0.00	0.022 0.033 0.054 0.066	0.15 0.03 0.23 0.66 0.69
DHIA fees Dairy supplies Dairy assessment Other variable cash expenses Total variable cash expenses	0.00 0.00 6.33	0.17	0.50	0.20				0 0 0 0		-00%	
General farm overhead Taxes and insurance Interest	0.72	0.62	0.69	0.62 0.42 1.93 2.97	0.78 0.40 1.57 2.75	0.78 0.40 1.35 2.53	0.95 0.48 1.19 2.62	0.54	0.00	0.60	041-W
lotal, tixed cash expenses	07.6			10.42	10.17	9.76	11.24	10.00	10.00	9.63	9.51
Total, cash expenses	5,16	-	4.13	0	3.0	3.64	2.02	5.11	5.41	4.21	5.35
Gross Value of production too con expenses and returns, per	returns,	ii o	pper Mi	dwest, 198	2-92			00 01 80 01 01 01 01	14 16 18 11 11 11 11	11 11 13 14 14 14	11 11 11 11 11 11 11 11 11 11 11 11 11
Table 4/b- mith production to the second sec	1982	1983	12	1985	198	-		1989	1990	1991	1992
Gross value of production: Milk Cattle Other income Total, gross value of production	13.19 1.37 0.00 14.56	1.3		12.25 1.15 0.00 13.40	12.11	12.11 1.29 0.00 13.40	11.92 1.34 0.00 13.26	13.35 1.61 0.15 15.11	13.50 1.73 0.18 15.41	12.04 1.63 0.17 13.84	13.11 1.56 0.19 14.86
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Land Unpaid labor	0.72 0.72 0.40 1.19 1.97	6.85 0.62 0.38 1.84 1.10 1.10 1.77	7.00 0.69 0.42 1.83 1.07 1.94 1.94	7.45 0.62 0.62 0.07 0.62 1.98	7.42 0.78 0.040 0.05 0.05 13.06 13.46	7.23 0.78 0.65 0.05 0.09 13.29	8.62 0.952 0.048 0.07 0.16 2.08 15.42	8.09 1.645 0.08 0.08 0.36 14.20	7.92 0.65 0.43 1.91 1.24 1.24 1.82	7.65 0.60 0.45 1.51 1.51 2.26 13.99	7.69 0.57 0.46 1.45 0.03 0.34 2.38 14.05
Total, economic costs	1,55					0.11	-2.16	0.91	0.59	-0.15	0.81
Residual returns to management and rish	11 11 11 11 11 11 11	11			ii 11 11 11 11 11 11	11 11 11 11 11 11 11	1				

#											
	01 01 11 11 00 01 11 11	10 11 11 10 10 10 11 11 11			Q	ollars	1		1 5 1 1 1 1		
Gross value of production:	12 27			1	1	7	4	1	4.		2
Milk Cattle Other income 1/ Total gross value of production	1.08 0.00 14.45	1.41	14.29	13.88	13.61	13.87	13.58	1.60	1.67	1.62	1.53
Feed Concentrates	3.45	3.84	3.80					2,		4-4	
By-products	0.56			0 0	0.0	0.00	0.00	1.14	1.00	0.96	1.01
Silage Pasture and other forage	90.0	0.06	0.52	0.08		0 0	0 0	7.	7.	? ·	0 0
Other	0.57		5.1	1.6	2.	0 0	2	0 0	- O	0.00	0.62
Veterinary and medicine	0.21	0 0	20	MO	MO	0 0	20	0 0	20	0 0	
Fuel (ube, and electricity	53.0	0 0	744	2	27	0 0	42	0 0	77	9 0	
Machinery and building repairs Hired (abor	0.65	0 0	90	100	00	0 0	0.0	0 0	0.51	8 9	
Dairy supplies	0.50	0 0	Sin	2.	25		20	0 0	20	0 0	
Dairy assessment Other variable cash expenses Total, variable cash expenses	7.36	8.00	8.22	8.42	8.07	0.00	0.00	8.92	0.0	0 0	
General farm overhead Taxes and insurance	0.66	0.45	0.59	0.56	0.51	0.58	0.58	0.45	0.54	0.50	0.40
Interest Total, fixed cash expenses	2.73	5.	7.00	20	on	ivi	0.0	01	0 0		0 0
Total, cash expenses	10.09	10.88	11.01	10.66	10.64	9.83	11.04	10.64	10.51	10.50	10.37
Gross value of production less cash expenses	4.36	in	3.28	3.22	0.		2.54	4.45	4.70	3.27	4.54
	14 69 19 10 11 11 11 11 11 11	9	01 13 40 48 01 01 01	ii II 11	10 10 20 20 20 20 20 20 20 20 20 20 20 20 20	94 91 91 91 91 91 91 91			1		
Table 488Milk production economic costs and returns, per	returns,	0 1	Corn Belt	1982-92	11 11 11 15	\$1 11	11	10 11 11 11 12 11 11	H	11 11 11 13	11
I tem	1982	983	1984	1985	1986	1987		1989	90		1992
Gross value of production.	1 1 1 1 1 1 1					B			,		(
	13.37	MO			0 0	8 0	12.11	13.37	13.40	12.01	15.21
Other income Total, gross value of production	14.45	14.41	0.00	13.88	13.61	13.87	13.58	-0.	-2		-0;
Economic (full ownership) costs: Variable cash expenses	7.36	201			0.10	010	win	0.4	0 0	1 1	B 0
Taxes and insurance Capital replacement	1.80	40		1.88	1.81	1.80	1.92	1.79	2.05	1.67	1.61
ati	1.17		0 0		0,10,	0,00	シゲィ	000		0 0 1	
Land Unpaid labor Total economic costs	1.98	1.98	2.04		- wiwi	. 80 0	iwivi	OW			
Your bac transferred of partition leading	07 0	-0.57	67.0-	-1.00	-0.75	-0.18	-1.68	-1.28	-1.39	-2.64	-1.55

Gross value of production: Milk Milk Milk Other income 1/ Other income 1/ Iotal, gross value of production Is.53 15.				1986	1981	3	1909		1771	1775
ralue of production: e. income 1/ tal, gross value of production		11 11 11 11 11 11 11 11	11 11 11 11 11 11 11	========= 00	ollars	ii 11 11 11 11 11 11 11				
ash expenses:	14.50 0.90 0.00 15.40	14.30 0.84 0.00 15.14	13.80 1.15 0.00 14.95	13.60 1.10 0.00 14.70	13.70 1.28 0.00 14.98	13.20 1.37 0.00 14.57	14.30 1.33 0.04 15.67	14.70 1.35 0.05 16.10	12.70 1.32 0.05 14.07	13.70 1.20 0.08 14.98
Feed Concentrates By-products Hay Silage	1.88	4.55 2.39 0.20	4.91 0.13 1.98 0.11	7.41 0.14 0.12 0.12	3.97 0.13 0.10 0.12	4.66 0.13 0.14 0.15	4.82 0.79 1.51 0.55	4.56 0.76 1.46 0.51	4.89 0.75 1.30 0.43	4.0 1.18 0.40 14
and other forage suling and marketing sial insemination nary and medicine ock hauling lube, and electricity ery and building repairs		000000					0.73 0.04 0.01 0.20 0.31	0.75 0.04 0.017 0.22 0.29 1.13	20000001	0.77 0.00 0.18 0.29 1.29
or pplies essment iable cash expenses 2/	-00000	-00000								
variable cash expenses m overhead nsurance	00	00				0.88	0.29	0.34	0.32	0.29 0.25 0.51 1.05
l, fixed cash expenses		12.2			9	12.04	12.00	11.57	11.72	11.33
Total, cash expenses cash expenses 4.10	3.9	2.8		3.28	4.38	2.53	3.67	4.53	2.35	3.65
		South	Plains	82-9						11 11 11 11 11
Table 498Milk production economic costs and reserved	19	#		1986	1987	1988	1989	1990	1991	1992
Gross value of production: 14.60 1 0.93 Cattle other income 15.53 1	50 14.50 33 0.90 30 0.00 53 15.40	14	8-00	9000	13. 14.		14.30 1.33 0.04 15.67	14.70 1.35 0.05 16.10	12.70 1.32 0.05 14.07	13.70 1.20 0.08 14.98
gross value of productions cash expenses farm overhead insurance eplacement g capital	&000+0000	04υ00υ - ;	10.47 0.324 0.389 0.10 0.38	9.78 0.32 0.96 0.07 0.37	9.06 0.52 0.32 0.07 0.07	10.14 0.88 0.36 1.05 0.09 0.22 0.23	10.08 0.25 0.133 0.00 838	10.37 0.34 1.47 1.47 0.08 0.08	10.55 0.32 1.20 0.07 0.07 0.08	10.28 0.29 0.25 0.05 0.07
id labor tal, economic costs 13	0.2.	7 C								
Residual returns to management and risk	2	1.31	1.04	1.68	2.54	0.40	. II	. II	• 11	11

	1982	1983		1985	1986	1987	1988	1989	1990	1991	2661
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		ollars					
Gross value of production: Milk Cattle Other income 1/ Total, gross value of production	13.23	13.10 0.85 0.00 13.95	12.89 0.82 0.00 13.71	12.21 0.93 0.00 13.14	11.82 0.87 0.00 12.69	11.56 1.03 0.00 12.59	11.14	12.51 0.98 0.12 13.61	12.20 1.02 0.14 13.36	11.33 0.97 0.14 12.44	11.85 0.93 0.15 12.93
Cash expenses: Feed Concentrates By-products Hay Silage	2.23	3.48	3.46	3.13 0.57 2.62 0.33	2.24	2.74 0.45 0.26 0.26	00.559	3.45	3.45 0.80 1.84 0.77	3.31 0.83 0.63 0.12	3.13 0.83 1.46 0.61
Pasture and other forage Other Milk hauling and marketing Artificial insemination Veterinary and medicine Livestock hauling Fuel, lube, and electricity Machinery and building repairs Hired labor DHIA fees Dairy supplies	0.000000000000000000000000000000000000	400460-46	4	NO-00M00	30-0-W00-W0	70-0-000-00				2-1078-0-00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
General farm overhead Taxes and insurance	8.39 0.36 1.18	, , , ,		4 W.C.	ش بزندش	4-40	م مار مار	ر ريزين و		d wido.	9 1313010
Total, fixed cash expenses	1.69	٠		v. 0	2 -	5 6	J. 4		0 0	. M	
Total, cash expenses Gross value of production less cash expenses	4.01	, w		2.1	. 1	. W.	ω	• 11	2.44	2.13	2.69
Table 508Milk production economic costs and returns, per	returns,	11	: ·:	1982-92				ii ii	84 80 88 81 81 81 81	10 10 10 10 10 10 10 10 10	15 11 10 11 11 11
tem	1982	1983	38	1985	986	1987		686	1990	1991	1992
Gross value of production: Milk Cattle Other income Total, gross value of production 13.23 0.86 0.00 14.09	13.23 0.86 0.00 14.09	13.10 0.85 0.00 13.95	12.89 0.82 0.00 13.71	12.21 0.93 0.00 13.14	11.82 0.87 0.00 12.69	11.56 1.03 0.00 12.59	11. 12. 12.	- 50 N-	12.20 1.02 0.14 13.36	11.33 0.97 0.14 12.44	11.8
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Cand oppose the contact of the contact capital	8.39 0.36 0.15 0.178 0.06 0.078	9.24 0.30 0.16 0.79 0.05 0.05 11.69	9.01 0.38 0.76 0.76 0.57 0.057	9.00 0.32 0.00 0.00 0.00 0.00 0.00 0.00	8.89 0.24 0.17 0.067 0.30 0.03 10.39	8.20 0.140 0.055 0.055 0.055 0.055 0.055 0.055	9.07 0.150 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.	9.72 0.25 0.21 0.12 0.20 0.24 0.42 11.97	9.79 0.130 0.149 0.036 0.236 0.237 12.21	9.21 0.28 0.65 0.069 0.333 0.24 0.422 1.44	9.25 0.26 0.02 0.03 0.33 0.43
Pecidual returns to management and risk 3.18	3.18	~		ı,	1.90	2.30	0.82	1.64	1.15	1.00	1.52

Cow-Calf Production Regions

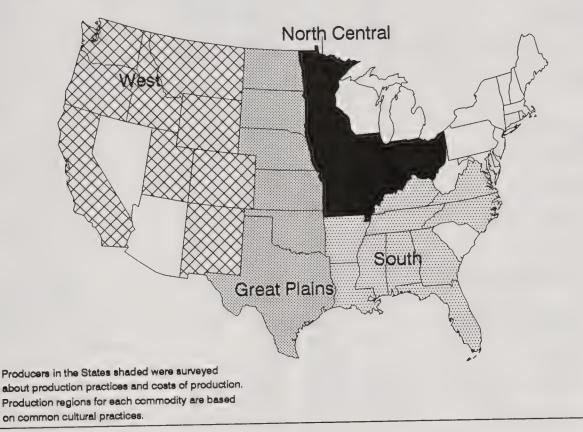
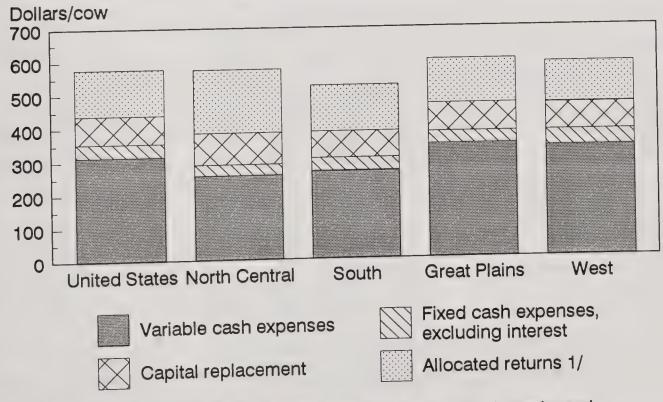


Figure 27

Cow-calf production economic costs, 1992



1/ Income foregone by allocating resources owned by the operation (operating and other nonland capital, land, and unpaid labor) to cow-calf production rather than some other income-producing use.

Table 51A--U.S. cow-calf production cash costs and returns, 1990-92

Item	1990	1991	1992
1 (=======	=======	
	Dollar	s per bre	d cow
Gross value of production:	61.49	63.22	57.26
Steer calves	51.68	53.24	48.09
Heifer calves		132.20	127.26
Yearling steers	133.46	72.17	69.72
Yearling heifers	72.97	117.40	111.23
Other cattle	121.99	438.23	413.56
Total, gross value of production	441.59	430.23	413.30
Cash expenses:	14.97	14.98	14.12
Feeder cattle	14.71	14.70	14,15
Feed	7.05	8.10	7.13
Grain	23.80	23.26	23.95
Protein supplements	7.55	7.41	7.53
By-products	77.93	71.77	74.67
Harvested forages		83.21	81.00
Pasture	83.63	193.75	194.28
Total feed costs	199.96	193.75	194.20
Other	44 7/	13.72	15.64
Veterinary and medicine	11.74	3.43	3.39
Livestock hauling	2.63	6.57	3.56
Marketing	6.66		0.18
Custom feed mixing	0.34	0.33	20.39
Fuel, lube	22.10	23.40	27.02
Machinery and building repairs	24.20	26.02	
Hired labor	27.97	29.03	30.47
Other variable cash expenses	5.09	5.26	5.47
Total, variable cash expenses	315.66	316.49	314.52
a later comband	34.16	27.52	27.87
General farm overhead	13.51	11.90	12.09
Taxes and insurance	38.47	31.98	27.97
Interest	86.14	71.40	67.93
Total, fixed cash expenses	00111		
Total, cash expenses	401.80	387.89	382.45
Gross value of production less cash expenses	39.79	50.34	31.11

Table 518--U.S. cow-calf production economic costs and returns, 1990-92

Item	1990	1991	1992
	Dolla	rs per bre	d cow
Gross value of production: Steer calves Heifer calves Yearling steers Yearling heifers Other cattle Total, gross value of production	61.49 51.68 133.46 72.97 121.99 441.59	63.22 53.24 132.20 72.17 117.40 438.23	57.26 48.09 127.26 69.72 111.23 413.56
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land Unpaid labor Total, economic costs	315.66 34.16 13.51 81.56 17.69 32.27 0.04 83.63 578.52	316.49 27.52 11.90 83.88 12.91 34.90 0.04 88.20 575.84	314.52 27.87 12.09 84.65 8.42 37.27 0.04 92.84 577.70
Residual returns to management and risk	-136.93	-137.61	-164.14

Table 52A--Cow-calf production cash costs and returns, North Central, 1990-92

Item	1990	1991	1992
	Dolla	rs per br	ed cow
Gross value of production:		·	
Steer calves	60.07	61.10	56.79
Heifer calves	34.69	35.10	32.82
Yearling steers	136.56	133.33	128.29
Yearling heifers	89.43	87.60	84.43
Other cattle	98.62		90.27
Total, gross value of production	419.37	412.60	392.60
Cash expenses:			- 40
Feeder cattle	2.79	2.68	2.60
Feed		44 57	0.07
Grain	10.96	11.57	9.83
Protein supplements	20.33	20.13	20.33
By-products	4.56	4.62	4.84
Harvested forages	63.63	66.60	68.07
Pasture	45.13	47.28	44.87
Total feed costs	144.61	150.20	147.94
Other		40.00	27 5/
Veterinary and medicine	15.49	19.08	23.56 1.25
Livestock hauling	0.96	1.26	
Marketing	5.94	5.87	3.17
Custom feed mixing	0.08	0.07	0.04 25.21
Fuel, lube, electricity	28.38	29.35	35.44
Machinery and building repairs	32.43	34.43	12.20
Hired labor	11.08	11.34	5.06
Other variable cash expenses	4.63	4.76	256.47
Total, variable cash expenses	246.39	259.04	230.41
General farm overhead	28.01	22.62	22.80
Taxes and insurance	11.50	10.16	10.38
Interest	38.06	31.76	27.95
Total, fixed cash expenses	77.57	64.54	61.13
Total, cash expenses	323.96	323.58	317.60
Gross value of production less cash expenses	95.41	89.02	75.00

Table 52B--Cow-calf production economic costs and returns, North Central, 1990-92

Item	1990	1991	1992
Gross value of production:	Dolla 60.07	ars per bi	red cow 56.79
Steer calves Heifer calves Yearling steers Yearling heifers Other cattle	34.69 136.56 89.43 98.62	35.10 133.33 87.60 95.47	32.82 128.29 84.43 90.27
Total, gross value of production Economic (full ownership) costs:	419.37	412.60	392.60 256.47
Variable cash expenses General farm overhead Taxes and insurance	246.39 28.01 11.50 93.08	22.62 10.16 95.38	22.80 10.38 95.80
Capital replacement Operating capital Other nonland capital Land	13.80 41.57 0.12	10.57 45.18 0.12	6.87 48.10 0.12
Unpaid labor Total, economic costs	117.15 551.62 -132.25	126.16 569.23 -156.63	134.99 575.53 -182.93
Residual returns to management and risk	=======================================	========	=======

Table 53A--Cow-calf production cash costs and returns, South, 1990-92

I tem	1990	1991	1776
	======= Dolla	rs per br	ed cow
t duchi ama	5011-		
Gross value of production:	85.18	88.91	78.48
Steer calves	84.76	88.64	78.14
Heifer calves	93.01	95.37	88.80
Yearling steers	36.36	37.25	34.61
Yearling heifers	80.62	78.59	72.56
Other cattle		388.76	352.59
Total, gross value of production	379.93	300.70	332.39
Cash expenses:	20.27	21.26	20.01
Feeder cattle	20.27	21.20	20.01
Feed	4 05	/ 27	5.39
Grain	6.05	6.27	18.54
Protein supplements	19.43	18.38	
By-products	14.61	14.48	14.55
Harvested forages	54.18	47.22	45.37
Pasture	54.08	55.33	54.34
Total feed costs	148.35	141.68	138.19
Other	9.77	9.86	9.49
Veterinary and medicine	3.98	5.20	5.17
Livestock hauling		7.36	3.97
Marketing	7.44		0.11
Custom feed mixing	0.21	0.20	20.85
Fuel, lube, electricity	22.71		
Machinery and building repairs	23.49		26.56
Hired labor	32.82	34.95	35.86
Other variable cash expenses	5.97	6.36	6.57
Total, variable cash expenses	275.01	276.20	266.78
General farm overhead	31.97	25.84	26.21
Taxes and insurance	15.10	13.30	13.51
Interest	22.35	18.59	16.17
Total, fixed cash expenses	69.42	57.73	55.89
Total, cash expenses	344.43	333.93	322.67
Gross value of production less cash expenses	35.50	54.83	29.92

Table 53B--Cow-calf production economic costs and returns, South, 1990-1992

	=========	========	=======
Item	1990	1991	1992
	2011	ars per bi	ed cow
	Docto	is per bi	ca con
Gross value of production:	05 40	88.91	78,48
Steer calves	85.18	88.64	78.14
Heifer calves	84.76		88.80
Yearling steers	93.01	95.37	
Yearling heifers	36.36	37.25	
Other cattle	80.62	78.59	72.56
Total, gross value of production	379.93	388.76	352.59
Economic (full ownership) costs:			- / / TO
Variable cash expenses	275.01	276.20	266.78
General farm overhead	31.97	25.84	26.21
Taxes and insurance	15.10	13.30	13.51
Capital replacement	75.11	78.41	79.71
Capital replacement	15.41	11.27	7.14
Operating capital	29.85	32.80	35.26
Other nonland capital	0.05	0.06	0.05
Land	84.14	92.51	95.53
Unpaid labor	526.64	530.39	524.19
Total, economic costs	220.04	223107	
Residual returns to management and risk	-146.71	-141.63	-171.60

Table 54A--Cow-calf production cash costs and returns, Great Plains, 1990-1992

1990-1992			
Item	1990	1991	1992
		rs per br	
Gross value of production:			
Steer calves	55.57	57.13	51.98
Heifer calves	45.40	46.71	42.45
Yearling steers	143.68	140.22	135.29
Yearling heifers	90.11	88.05	85.28
Other cattle	146.02	139.03	131.22
Total, gross value of production	480.78	471.14	446.22
Cash expenses:			
Feeder cattle	17.42	17.12	16.34
Feed Grain	7,66	9.68	8.38
Protein supplements	30.28	29.67	30.60
By-products	7.20	6.99	7.07
Harvested forages	87.90	79.54	83.15
Pasture	95.89	100.58	90.03
Total feed costs	228.93	226.46	219.23
Other	11.65	16.08	18.10
Veterinary and medicine	1.87	2.45	2.41
Livestock hauling	7.13	7.05	3.82
Marketing	0.47	0.46	0.24
Custom feed mixing	23.77	25.41	21.81
Fuel, lube, electricity	25.41	27.66	28.97
Machinery and building repairs	25.19	25.97	27.53
Hired labor Other variable cash expenses	5.59	5.69	5.97
Total, variable cash expenses	347.43	354.35	344.42
General farm overhead	34.16	27.47	27.82
	10.67	9.41	9.55
Taxes and insurance	32.64	26.99	23.48
Interest Total, fixed cash expenses	77.47	63.87	60.85
Total cash expenses	424.90	418.22	405.27
Gross value of production less cash expenses	55.88	52.92	40.95
======================================	========	=========	

Table 54B--Cow-calf production economic costs and returns, Great Plains, 1990-1992

I tem	1990	1991	1992
	Dol	lars per l	ored cow
Gross value of production: Steer calves Heifer calves Yearling steers Yearling heifers Other cattle Total, gross value of production	55.57 45.40 143.68 90.11 146.02 480.78	57.13 46.71 140.22 88.05 139.03 471.14	51.98 42.45 135.29 85.28 131.22 446.22
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land Unpaid labor Total, economic costs	347.43 34.16 10.67 80.89 19.47 31.73 0.02 79.28 603.65	354.35 27.47 9.41 84.13 14.46 34.37 0.02 81.56 605.77	344.42 27.82 9.55 85.37 9.22 36.92 0.02 86.57 599.89
Residual returns to management and risk	-122.87	-134.63	-153.67

Table 55A--Cow-calf production cash costs and returns, West, 1990-92

Item	1990	1771	1992
tem	======= Nolla	rs per br	ed cow
	portu	10 per a.	
Gross value of production:	50.92	51.60	47.76
Steer calves	40.94	41.61	38.71
Heifer calves	151.00	150.96	146.86
Yearling steers	69.72	69.75	67.98
Yearling heifers	131.00	127.33	122.60
Other cattle	443.58	441.25	423.91
Total, gross value of production	443.30	441162	72377
Cash expenses:	12.26	12.07	11.10
Feeder cattle	12.20	12.07	11110
Feed	5 07	5.47	5.34
Grain	5.07 18.92	18.79	19.77
Protein supplements		3.26	3.57
By-products	3.38	83.26	89.39
Harvested forages	89.63		106.72
Pasture	108.32	97.21	224.79
Total feed costs	225.32	207.99	224.17
Other	11.80	10.72	13,18
Veterinary and medicine	3.47	4.52	4.47
Livestock hauling	5.57	5.48	2.96
Marketing	0.35	0.35	0.19
Custom feed mixing		16.88	15.43
Fuel lube, electricity	15.90	19.83	20.28
Machinery and building repairs	18.96		39.29
Hired labor	36.26	37.35	3.96
Other variable cash expenses	3.76	3.85	335.65
Total, variable cash expenses	333.65	319.04	333.03
a l form evenhend	39.01	31.45	31.80
General farm overhead	17.61	15.49	15.72
Taxes and insurance	62.08	51.76	45.17
Interest	118.70	98.70	92.69
Total, fixed cash expenses	110110		
Total, cash expenses	452.35	417.74	428.34
Gross value of production less cash expenses	-8.77	23.51	-4.43

Table 55B--Cow-calf production economic costs and returns, West, 1990-92

Item	1990	1991	1992
	========= Dolla	rs per br	
Gross value of production: Steer calves Heifer calves	50.92 40.94 151.00	51.60 41.61 150.96	47.76 38.71 146.86
Yearling steers Yearling heifers Other cattle Total, gross value of production	69.72 131.00 443.58	69.75	67.98 122.60 423.91
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land Unpaid labor Total, economic costs	333.65 39.01 17.61 82.73 18.69 30.81 0.02 74.08 596.60	319.04 31.45 15.49 82.65 13.02 32.60 0.02 76.63 570.90	335.65 31.80 15.72 82.38 8.99 34.36 0.02 80.29 589.20
Residual returns to management and risk	-153.02	-129.65	-165.30

Hog Production Regions

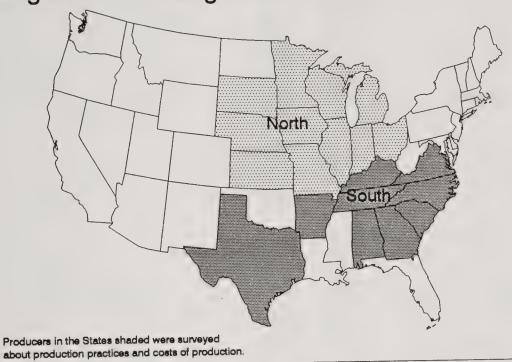


Figure 29
Hog production economic costs per cwt gain, 1992

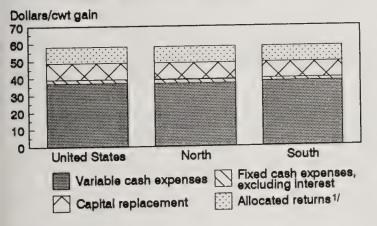


Figure 31
Farrow-to-feeder pig production economic costs
per cwt gain, 1992

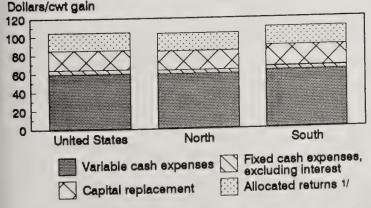


Figure 30
Farrow-to-finish production economic costs per cwt gain, 1992

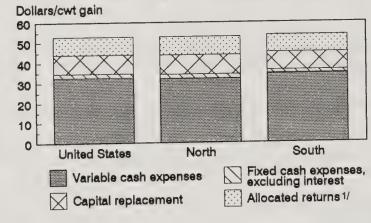
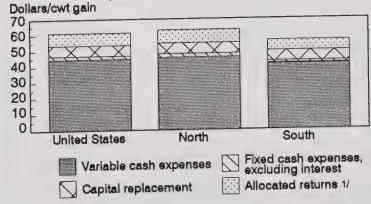


Figure 32
Feeder pig-to-finish production economic costs
per cwt gain, 1992



1/Income foregone by allocating resources owned by the operation (operating and other nonland capital, land, and unpaid labor) to hog production rather than some other income-producing use.

Table 56A--U.S. hog production cash costs and returns, 1992

***************************************	1992
Item	177-
	Dollars per
	cwt gain 1/
	ORC Sain in
Gross value of production:	38.44
Market hogs	4.43
Feeder pigs	2.39
Cull stock	2.17
Breeding stock	-0.03
Inventory change	0.00
Other income 2/	47.40
Total, gross value of production	
Cash expenses:	
Feed	11.17
Grain	8.87
Protein sources	5.34
Complete mixes	0.59
Other feed items 3/	25.97
Total feed costs	
Other-	3.24
Feeder pigs Veterinary and medicine	1.28
Bedding and litter	0.08
Marketing	0.52
Custom services and supplies	0.43
Fuel, lube, and electricity	1.65
Repairs	1.22
Hired labor	2.62
Total, variable cash expenses	37.01
General farm overhead	1.43
Taxes and insurance	0.83
Interest	2.58
Total, fixed cash expenses	4.84
Total, cash expenses	41.85
Gross value of production less cash exp	enses 5.55

Table 56B--U.S. hog production economic costs and returns, 1992

1776	
I tem	1992
	Dollar per cwt gain 1/
Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/ Total, gross value of production	38.44 4.43 2.39 2.17 -0.03 0.00 47.40
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land Unpaid labor Total, economic (full-ownership) costs	37.01 1.43 0.83 9.69 0.66 3.38 0.24 5.06 58.30
Residual returns to management and risk	-10.90
the second transfer and the	cut inventory

1/ Cwt gain = (cwt sold - cwt purchased) + cwt inventory
change. 2/ Receipts from manure sales.
3/ Milk replacer, milk, milk by-products,
antibiotics, other medicated additives.

Table 57A--Hog production cash costs and returns, North, 1992

1992	
I tem	1992
1 (911	
	Dollars per
	cwt gain 1/
Gross value of production:	
Market hogs	38.31
Feeder pigs	4.43
Cull stock	2.39
Breeding stock	2.27
Inventory change	0.06
Other income 2/	0.00
Total, gross value of production	47.46
Cash expenses:	
Feed	11.32
Grain Protein sources	9.25
Complete mixes	4.57
Other feed items 3/	0.67
Total feed costs	25.81
Other	
Feeder pigs	3.11
Veterinary and medicine	1.38
Bedding and litter	0.09
Marketing	0.48
Custom services and supplies	0.41
Fuel, lube, and electricity	1.64
Repairs	1.23
Hired labor	2.66
Total, variable cash expenses	36.81
	1.51
General farm overhead	0.85
Taxes and insurance	2.74
Interest	5.10
Total, fixed cash expenses	3
Total, cash expenses	41.91
Total, cash expenses	
Gross value of production less cash expenses	5.55 ========
	d returns.
Table 578Hog production economic costs and	a (ccarrio)
North, 1992	
item	1992
1 Cell	========
	Dollar per
	cwt gain 1/
Gross value of production:	
Market hogs	38.31
Feeder pigs	4.43
Cull stock	2.39
Breeding stock	2.27
Inventory change	0.06
Other income 2/	47.46
Total, gross value of production	47.40
17.5	
Economic (full ownership) costs:	36.81
Variable cash expenses	1.51
General farm overhead	0.85
Taxes and insurance	9.75
Capital replacement	0.66
Operating capital Other nonland capital	3.34
Land	0.26
Hamaid Johan	5.15
Offipula tubol	
Total, economic (full-ownership) costs	58.33
Total, economic (full-ownership) costs	_
to management and risk	-10.87
Residual returns to management and risk	-10.87
Residual returns to management and risk	-10.87
Residual returns to management and risk	-10.87 ====== cwt inventor / Milk
Residual returns to management and risk	-10.87 ====== cwt inventor / Milk
Residual returns to management and risk	-10.87 ====== cwt inventor / Milk

Table 58A--Hog production cash costs and returns,

Table 58AHog production cash costs and return South, 1992	
=======================================	4002
Item	1992
	========
	Dollars per
	cwt gain 1/
Gross value of production:	
Market hogs	39.04
Feeder pigs	4.45
Cull stock	2.39
Breeding stock	1.66
Inventory change	-0.49
Other income 2/	0.00
Total, gross value of production	47.05
Total, gross value of production	
a d amanaga	
Cash expenses:	
Feed	10.41
Grain	6.98
Protein sources	9.21
Complete mixes	0.23
Other feed items 3/	26.83
Total feed costs	20.03
Other	3.86
Feeder pigs	0.78
Veterinary and medicine	
Bedding and litter	0.02
Marketing	0.72
Custom services and supplies	0.51
Fuel, lube, and electricity	1.73
Repairs	1.14
Hired labor	2.42
Total, variable cash expenses	38.01
Total, variable saon expenses	
General farm overhead	1.03
Taxes and insurance	0.75
	1.77
Interest Total, fixed cash expenses	3.55
Total, fixed cash expenses	
Total, cash expenses	41.56
Total, cash expenses	
Gross value of production less cash expenses	5.49
======================================	========
Table 58BHog production economic costs and	returns.
Table Sau-Hog production economic costs and	, , , , , , , , , , , , , , , , , , , ,
South, 1992	
=======================================	1992
Item	–
	Dollar per
	cwt gain 1/
Gross value of production:	70.0/
Market hogs	39.04
Feeder pigs	4.45
Cull stock	2.39

South, 1772	========
Item	1992
	========
	Dollar per
	cwt gain 1/
Gross value of production:	
Market hogs	39.04
Feeder pigs	4.45
Cull stock	2.39
Breeding stock	1.66
Inventory change	-0.49
Other income 2/	0.00
Total, gross value of production	47.05
Economic (full ownership) costs:	
Variable cash expenses	38.01
General farm overhead	1.03
Taxes and insurance	0.75
Capital replacement	9.40
Operating capital	0.68
Other nonland capital	3.56
Land	0.16
Unpaid Labor	4.57
Total, economic (full-ownership) costs	58.16
Residual returns to management and risk	-11.11
<pre>1/ Cwt gain = (cwt sold - cwt purchased) + change. 2/ Receipts from manure sales. 3/ Milk replacer, milk, milk by-products, antibiotics, and other medicated additives.</pre>	

Table 504--11.5. Farrow-to-finish production cash costs

Item 1992 Dollars per cwt gain 1/ Feeder pigs 0,39 Cull stock 2.27 Breeding stock 0.19 Inventory change 0.15 Other income 2/ Total, gross value of production 42,45 Cash expenses: Feed Grain 9.57 Complete mixes 3,90 Other feed items 3/ Total feed costs 25.53 Other Feeder pigs 0,14 Veterinary and medicine Bedding and litter 0,06 Marketing 0,43 Custom services and supplies Fuel, lube, and electricity 1,59 Repairs 1,19 Repairs 1,19 Repairs 1,19 Repairs 1,19 Rera and insurance 1,23 General farm overhead 1,27 Tatal, cash expenses 37,10 Gross value of production less cash expenses 5,35 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Item 1992 Item 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Item 1992 Item 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Item 1992 Item 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Item 1992 Item 290 Dollar per cwt gain 2 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Item 1992 Item 290 Dollar per cwt gain 2 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Item 1992 Item 200 Dollar per cwt gain 2 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Item 1992 Item 200 Dollar per cwt gain 2 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Item 1992	able 59AU.S. Farrow-to-finish production ca and returns, 1992	
Bollars per cwt gain 1/ Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/ Total, gross value of production Cash expenses: Feed Grain Protein sources Complete mixes Other feed items 3/ Total feed costs Other Feeder pigs Veterinary and medicine Bedding and litter Marketing Custom services and supplies Fuel, lube, and electricity Repairs Hired labor Total, variable cash expenses General farm overhead Taxes and insurance Interest Total, fixed cash expenses Total, cash expenses Total, cash expenses Total, cash expenses Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Item Dollar per cwt gain 1/ Boollar per cwt gain 1/ Item 1992 Item Dollar per cwt gain 2/ Item 1992 Item Journal 1/ Boollar per cwt gain 2/ Breeding stock Inventory change Other income 2/ Item 1992 Dollar per cwt gain 2 Item 1992 Dollar per cwt gain 2 Item Journal 1/ Boollar per cwt gain 2 Item Journal 1/ Boollar per cwt gain 2 Breeding stock Inventory change Other income 2/ Item Journal 1/ Journa	Item	1992
market hogs 39.75 Feeder pigs 0.39 Cult stock 2.27 Breeding stock 0.19 Inventory change 0.00 Other income 2/ 0.00 Total, gross value of production 42.45 Cash expenses: Feed Grain 11.51 Protein sources 9.57 Complete mixes 0.55 Complete mixes 0.55 Total feed costs 0.55 Other Feeder pigs 0.14 Veterinary and medicine 1.12 Bedding and litter 0.06 Marketing 0.43 Custom services and supplies 0.37 Fuel, lube, and electricity 1.56 Repairs 1.19 Hired labor 2.36 General farm overhead 1.27 Total, variable cash expenses 37.10 Gross value of production less cash expenses 5.35 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Item 1992 Item 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Item 1992		
Freeder pigs 0.39 Cotle stock 2.27 Breeding stock 0.19 Inventory change 0.00 Total, gross value of production 42.45 Cash expenses: Feed Grain 11.51 Protein sources 9.57 Complete mixes 0.95 Cother feed items 3/ 0.55 Cother Feeder pigs 0.14 Veterinary and medicine Bedding and litter 0.43 Custom services and supplies Fuel, lube, and electricity 1.56 Repairs 1.19 Repairs 1.19 Repairs 1.19 General farm overhead 1.27 Taxes and insurance 1.27 Taxes and insurance 1.32 Total, cash expenses 37.10 Gross value of production less cash expenses 5.35 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Item 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Item 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992		•
Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/ Total, gross value of production Cash expenses: Feed Grain Protein sources Complete mixes Other-feed items 3/ Total feed costs Other Feeder pigs Veterinary and medicine Bedding and litter Marketing Custom services and supplies Fuel, lube, and electricity Repairs Hired labor Total, variable cash expenses General farm overhead Taxes and insurance Interest Total, fixed cash expenses Total, sand every total production economic costs and returns, 1992 Item Toylor Gross value of production: Market hogs Feeder pigs Cult stock Breeding stock Inventory change Other income 2/ Costs Co		
Feeder pigs Cull stock Breeding stock Cull s		
Cull stock Breeding stock Inventory change Other income 2/ Total, gross value of production Cash expenses: Feed Grain Protein sources Other feed items 3/ Total feed costs Other Feeder pigs Veterinary and medicine Bedding and litter Marketing Custom services and supplies Fuel, lube, and electricity Hired labor Total, variable cash expenses General farm overhead Total, fixed cash expenses Total, cash expenses Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Item Total yariable of production: Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/ Total, cash expense Outper income 2/ Total Tota		
Breeding stock Inventory change Other income 2/ Total, gross value of production Cash expenses: Feed Grain Protein sources Complete mixes Other feed items 3/ Total feed costs Other Feeder pigs Veterinary and medicine Bedding and litter Marketing Custom services and supplies Fuel, lube, and electricity Repairs Hired labor Total, variable cash expenses General farm overhead Interest Total, fixed cash expenses Total, cash expenses Total feed cost Total feed		2.27
Inventory change Other income 2/ Total, gross value of production Cash expenses: Feed Grain Protein sources Complete mixes Other feed items 3/ Total feed costs Other Feeder pigs Veterinary and medicine Bedding and litter Marketing Custom services and supplies Fuel, lube, and electricity Repairs Hired labor Total, variable cash expenses General farm overhead Taxes and insurance Interest Total, fixed cash expenses Total, cash expenses Table 598U.S. Farrow-to-finish production economic costs and returns, 1992 Item Total population Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/ Total Total, cash expense Total Tot	Breeding stock	
Other income 2/ Total, gross value of production Cash expenses: Feed Grain Protein sources Complete mixes Other feed items 3/ Total feed costs Other Feeder pigs Veterinary and medicine Bedding and litter Marketing Custom services and supplies Fuel, lube, and electricity Repairs Hired labor Total, variable cash expenses Total, fixed cash expenses Total, cash expense		
Total, gross value of production Cash expenses: Feed Grain Protein sources Complete mixes Other feed items 3/ Total feed costs Other Feeder pigs Veterinary and medicine Bedding and litter Marketing Custom services and supplies Fuel, lube, and electricity Repairs Hired labor Total, variable cash expenses General farm overhead Taxes and insurance Interest Total, fixed cash expenses Total, cash expenses Total, cash expenses Total, cash expenses Total, services and supplies Fuel, lube, and electricity I.56 Repairs Hired labor Total, variable cash expenses General farm overhead Taxes and insurance Interest Total, fixed cash expenses Total, fixed cash expenses Total,		
Feed- Grain Protein sources Complete mixes Other feed items 3/ Total feed costs Other- Feeder pigs Veterinary and medicine Bedding and litter Marketing Custom services and supplies Fuel, lube, and electricity Repairs Hired labor Total, variable cash expenses General farm overhead Taxes and insurance Interest Total, fixed cash expenses Gross value of production less cash expenses Table 598U.S. Farrow-to-finish production economic costs and returns, 1992 Item Interest Total, fixed cash expenses Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/ Intertination I	Total, gross value of production	42.45
Grain Protein sources Protein		
Protein sources Complete mixes Other feed items 3/ Total feed costs Other Feeder pigs Veterinary and medicine Bedding and litter Marketing Custom services and supplies Fuel, lube, and electricity Repairs Hired labor Total, variable cash expenses General farm overhead Taxes and insurance Interest Total, fixed cash expenses Total, cash expenses To		11 51
Complete mixes Other feed items 3/ Total feed costs Other Feeder pigs Veterinary and medicine Bedding and litter Marketing Custom services and supplies Fuel, lube, and electricity Repairs Hired labor Total, variable cash expenses General farm overhead Taxes and insurance Interest Total, fixed cash expenses Total, cash expenses Total, cash expenses Total, cash expenses Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Item Total pollar per cwt gain 2 Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/ Total possible costs Total possible costs Total production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/ Total possible costs Total possible possible costs Total possible costs Total possible costs Total po		
Other feed items 3/		
Total feed costs Other Feeder pigs Veterinary and medicine Bedding and litter Marketing Custom services and supplies Fuel, lube, and electricity Repairs Hired labor Total, variable cash expenses General farm overhead Taxes and insurance Interest Total, fixed cash expenses Total,	Complete mixes	
Other- Feeder pigs Veterinary and medicine Bedding and litter Marketing Custom services and supplies Fuel, lube, and electricity Repairs Hired labor Total, variable cash expenses General farm overhead Taxes and insurance Interest Total, fixed cash expenses Gross value of production less cash expenses Table 59B-U.S. Farrow-to-finish production economic costs and returns, 1992 Item Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/	Other feed Items 3/	
Feeder pigs Veterinary and medicine Bedding and litter Marketing Custom services and supplies Fuel, lube, and electricity Repairs Hired labor Total, variable cash expenses Total, fixed cash expenses Total, cash expenses Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992		23.33
Veterinary and medicine Bedding and litter Bedding and litter Marketing Custom services and supplies Fuel, lube, and electricity Repairs Hired labor Total, variable cash expenses General farm overhead Taxes and insurance Interest Total, fixed cash expenses Total, cash expenses Total production less cash expenses Item Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Item Total production: Warket hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/		0.14
Bedding and litter Bedding and litter Marketing Custom services and supplies Fuel, lube, and electricity Repairs Hired labor Total, variable cash expenses General farm overhead Taxes and insurance Interest Total, fixed cash expenses Total, cash expenses Gross value of production less cash expenses Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Item Dollar per cwt gain 2 Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/	Feeder pigs	
Marketing 0.43 Custom services and supplies 0.37 Fuel, lube, and electricity 1.56 Repairs 1.19 Repairs 2.36 Total, variable cash expenses 32.76 General farm overhead 1.27 Taxes and insurance 2.31 Total, fixed cash expenses 4.34 Total, cash expenses 37.10 Gross value of production less cash expenses 5.35 ==================================	veterinary and medicine	
Custom services and supplies Fuel, lube, and electricity Repairs Hired labor Total, variable cash expenses General farm overhead Taxes and insurance Interest Total, fixed cash expenses Total, cash		
Fuel, lube, and electricity Repairs Hired labor Total, variable cash expenses General farm overhead Taxes and insurance Interest Total, fixed cash expenses Total, cash expenses Gross value of production less cash expenses Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Item Item 1992 Item Dollar per cwt gain 2 Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/	Marketing	
Repairs Hired labor Total, variable cash expenses General farm overhead Taxes and insurance Interest Total, fixed cash expenses Total, cash expenses Gross value of production less cash expenses Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Item Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/	custom services and suppries	1.56
Hired labor Total, variable cash expenses General farm overhead Taxes and insurance Interest Total, fixed cash expenses Total, cash expenses Gross value of production less cash expenses Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Item 1992 Item 1992 Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/	Panairs	1.19
General farm overhead Taxes and insurance Interest Total, fixed cash expenses Total, cash expenses Total, cash expenses Gross value of production less cash expenses Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Item 1992 Item 1992 Item 1992 Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/		2.36
Taxes and insurance 0.76 Interest 2.31 Total, fixed cash expenses 4.34 Total, cash expenses 37.10 Gross value of production less cash expenses 5.35 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Item 1992 Item 1992 Gross value of production: Market hogs Peeder pigs 0.39 Cull stock 0.19 Inventory change 0.00 Other income 2/	Total, variable cash expenses	32.76
Taxes and insurance Interest Total, fixed cash expenses Total, cash expenses Total cash expenses	Ceneral farm overhead	
Interest Total, fixed cash expenses Total, cash expenses Total, cash expenses 37.10 Gross value of production less cash expenses Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Item 1992 Item 1992 Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/	Taxes and insurance	
Total, fixed cash expenses Total, cash expenses 37.10 Gross value of production less cash expenses Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Item 1992 Item 1992 Obliar per cwt gain 2 Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/	Interest	
Gross value of production less cash expenses 5.35 Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Item 1992 Item 1992 Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/	Total, fixed cash expenses	4.34
Table 598U.S. Farrow-to-finish production economic costs and returns, 1992 Item 1992 Item 1992 Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/	Total, cash expenses	37.10
Table 59BU.S. Farrow-to-finish production economic costs and returns, 1992 Item 1992 Item 1992 Bollar per cwt gain 2 Gross value of production: Market hogs 0.39 Feeder pigs 0.39 Cull stock 0.19 Breeding stock 0.19 Inventory change 0.00	Gross value of production less cash expenses	
Costs and returns, 1992 Item 1992 Item Dollar per cwt gain 2 Gross value of production: Market hogs 0.39 Feeder pigs 0.39 Cull stock 0.19 Breeding stock 0.19 Inventory change 0.00		
Item 1992 Item 2001	seeks and refurns 1997	
Item 1992 ==================================		========
Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/	I tem	1992
Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/		========
Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/		pottar per
Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/		cwt gain 2
Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/	Gross value of production:	
Feeder pigs 2.27 Cull stock 0.19 Breeding stock -0.15 Inventory change 0.00	Market hogs	
Cull stock 0.19 Breeding stock -0.15 Inventory change 0.00		
Breeding stock -0.15 Inventory change 0.00	full stock	
Inventory change 0.00		
Other income 2/		
Total gross value of production 42.45	Other income 2/	
	Total, gross value of production	42.45

Economic (full ownership) costs: 32.76 Variable cash expenses 1.27 General farm overhead Taxes and insurance 9.39 Capital replacement 0.58 Operating capital 3.30 Other nonland capital 0.24 Land 4.82 Unpaid labor Total, economic (full-ownership) costs 53.12

-10.67 Residual returns to management and risk

^{1/} Cwt gain = (cwt sold - cwt purchased) + cwt inventory change. 2/ Receipts from manure sales.

3/ Milk replacer, milk, milk by-products, antibiotics, and other medicated additives.

Table 60A--Farrow-to-finish production cash costs and returns, North, 1992 Item Dollars per cwt gain 1/ Gross value of production: 39.70 Market hogs 0.38 Feeder pigs 2.40 Cull stock 0.17 Breeding stock 0.07 Inventory change 0.00 Other income 2/ 42.72 Total, gross value of production Cash expenses: Feed-11.37 Grain 9.72 Protein sources 3.45 Complete mixes 0.60 Other feed items 3/ 25.14 Total feed costs Other--0.16 Feeder pigs 1.17 Veterinary and medicine 0.06 Bedding and litter 0.41 Marketing 0.36 Custom services and supplies 1.52 Fuel, lube, and electricity 1.20 Repairs 2.34 Hired labor 32.36 Total, variable cash expenses 1.32 General farm overhead 0.77 Taxes and insurance 2.46 Interest 4.55 Total, fixed cash expenses 36.91 Total, cash expenses Gross value of production less cash expenses Table 60B--Farrow-to-finish production economic costs and returns, North, 1992 Item Dollar per cwt gain 1/ Gross value of production: 39.70 Market hogs 0.38 Feeder pigs 2.40 Cull stock 0.17 Breeding stock 0.07 Inventory change 0.00 Other income 2/ 42.72 Total, gross value of production Economic (full ownership) costs: 32.36 Variable cash expenses 1.32 General farm overhead 0.77 Taxes and insurance 9.50 Capital replacement 0.58 Operating capital 3.30 Other nonland capital 0.26 Land 4.88 Unpaid labor

1/ Cwt gain = (cwt sold - cwt purchased) + cwt inventory
change, 2/ Receipts from manure sales, 3/ Milk
replacer, milk, milk by-products, antibiotics,
and other medicated additives.

Total, economic (full-ownership) costs

Residual returns to management and risk

52.97

-10.25

	4002
Item	1992
	Dollars per
	cwt gain 1/
Gross value of production:	39.99
Market hogs Feeder pigs	0.42
Cull stock	1.57
Breeding stock	0.27
Inventory change	-1.33
Other income 2/	0.01 40.93
Total, gross value of production	40.73
Cash expenses:	
Feed	42.2/
Grain	12.24 8.82
Protein sources	6.26
Complete mixes Other feed items 3/	0.30
Total feed costs	27.62
Other	0.04
Feeder pigs	0.06 0.83
Veterinary and medicine	0.02
Bedding and litter Marketing	0.55
Custom services and supplies	0.43
Fuel, lube, and electricity	1.74
Repairs	1.11 2.47
Hired labor	34.83
Total, variable cash expenses	34.03
General farm overhead	0.98
Taxes and insurance	0.68
Interest	1.56 3.22
Total, fixed cash expenses	3.22
Total, cash expenses	38.05
	nses 2.88
1 / Complete Door Cach AYDe	
Gross value of production less cash expe	=======================================
Gross value of production tess cash expenses	=======================================
Table 61RFarrow-to-finish production e	
Table 61BFarrow-to-finish production e	conomic costs
Table 61BFarrow-to-finish production e and returns, South, 1992	conomic costs
Table 61BFarrow-to-finish production e and returns, South, 1992	conomic costs ===================================
Table 61BFarrow-to-finish production e and returns, South, 1992	conomic costs ==================================
Table 61BFarrow-to-finish production e and returns, South, 1992 Item	conomic costs ==================================
Table 61BFarrow-to-finish production e and returns, South, 1992 Item Gross value of production:	conomic costs ==================================
Table 61BFarrow-to-finish production e and returns, South, 1992 Item Gross value of production: Market hogs	conomic costs ==================================
Table 61BFarrow-to-finish production e and returns, South, 1992 Item Gross value of production: Market hogs Feeder pigs	conomic costs ==================================
Table 61BFarrow-to-finish production e and returns, South, 1992 Item Gross value of production: Market hogs	conomic costs ==================================
Table 61BFarrow-to-finish production e and returns, South, 1992 Item Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change	conomic costs ==================================
Table 61BFarrow-to-finish production e and returns, South, 1992 Item Item Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change	conomic costs ==================================
Table 61BFarrow-to-finish production e and returns, South, 1992 Item Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change	conomic costs ==================================
Table 61BFarrow-to-finish production e and returns, South, 1992 Item Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/ Total, gross value of production	conomic costs ==================================
Table 61BFarrow-to-finish production e and returns, South, 1992 Item Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/ Total, gross value of production Economic (full ownership) costs:	conomic costs ==================================
Table 61BFarrow-to-finish production e and returns, South, 1992 Item Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/ Total, gross value of production Economic (full ownership) costs: Variable cash expenses General farm overhead	conomic costs ==================================
Table 61BFarrow-to-finish production e and returns, South, 1992 Item Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/ Total, gross value of production Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance	conomic costs ==================================
Table 61BFarrow-to-finish production e and returns, South, 1992 Item Item Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/ Total, gross value of production Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement	conomic costs ==================================
Table 61BFarrow-to-finish production e and returns, South, 1992	conomic costs ==================================
Table 61BFarrow-to-finish production e and returns, South, 1992 Item Item Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/ Total, gross value of production Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital	conomic costs ==================================
Table 61BFarrow-to-finish production e and returns, South, 1992 Item Item Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/ Total, gross value of production Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land	conomic costs ==================================
Table 61BFarrow-to-finish production e and returns, South, 1992 Item Item Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/ Total, gross value of production Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land	conomic costs ==================================
Table 61BFarrow-to-finish production e and returns, South, 1992 Item Item Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/ Total, gross value of production Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land Unpaid labor Total, economic (full-ownership) co	conomic costs ==================================
Table 61BFarrow-to-finish production e and returns, South, 1992 Item Item Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/ Total, gross value of production Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land Unpaid labor Total, economic (full-ownership) co	Conomic costs ==================================
Table 61BFarrow-to-finish production e and returns, South, 1992 Item Item Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/ Total, gross value of production Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land Unpaid labor Total, economic (full-ownership) co	conomic costs ==================================

Table 424-00 C Farrou-to-feeder pig production cash costs

Table 62AU.S. Farrow-to-feeder pig proc and returns, 1992	
######################################	1992
I tem	
	Dollars per
	cwt gain 1/
Gross value of production:	
Market hogs	0.89
Feeder pigs	63.94
Cull stock	5.67
Breeding stock	0.11
Inventory change	2.43
Other income 2/	0.00
Total, gross value of production	73.04
Cash expenses:	
Feed	13.75
Grain	8.84
Protein sources	14.00
Complete mixes	0.79
Other feed items 3/	37.38
Total feed costs	31.30
Other	0.04
Feeder pigs	4.37
Veterinary and medicine	0.18
Bedding and litter	2.44
Marketing	1.14
Custom services and supplies	4.90
Fuel, lube, and electricity	2.64
Repairs	6.89
Hired labor	59.98
Total, variable cash expenses	37.70
General farm overhead	2.54
Taxes and insurance	1.68
Interest	4.77
Total, fixed cash expenses	8.99
Total, cash expenses	68.97
Gross value of production less cash experiences	enses 4.07
Table 628U.S. Farrow-to-feeder pig procests and returns, 1992	==========
Item	1992

Item	1992
=======================================	Dollar per cwt gain 1/
Gross value of production:	0.00
Market hogs	0.89
Feeder pigs	63.94
Cull stock	5.67
Breeding stock	0.11
Inventory change	2.43
Other income 2/	0.00
Total, gross value of production	73.04
Economic (full ownership) costs:	
Variable cash expenses	59.98
General farm overhead	2.54
Taxes and insurance	1.68
Capital replacement	21.22
Operating capital	1.07
Other nonland capital	6.87
Land	0.48
Unpaid labor	10.97
Total, economic (full-ownership) costs	104.81
Residual returns to management and risk	-31.77
***************************************	=========

change. 2/ Receipts from manure sales. 3/ Milk replacer, milk, milk by-products, antibiotics, and other medicated additives.

Table 63A--Farrow-to-feeder pig production cash costs

tem	1992
	Dollars pe
	cwt gain 1
Gross value of production:	0.01
Market hogs	0.94
Feeder pigs	64.88 5.67
Cull stock	0.12
Breeding stock	-0.14
Inventory change	
Other income 2/	0.00
Total, gross value of production	71.47
Cash expenses:	
Feed	15.56
Grain	9.82
Protein sources	10.75
Complete mixes	0.94
Other feed items 3/	37.07
Total feed costs	37.07
Other	0.05
Feeder pigs	4.99
Veterinary and medicine	0.22
Bedding and litter	2.03
Marketing	0.91
Custom services and supplies	
Fuel, lube, and electricity	4.94
Repairs	2.79
Hired labor	6.35
Total, variable cash expenses	59.35
General farm overhead	2.59
Taxes and insurance	1.61
Interest	4.66
Total, fixed cash expenses	8.86
Total, cash expenses	68.21
Gross value of production less cash expens	ses 3.26

Table 63B--U.S. Farrow-to-feeder pig production economic costs and returns, 1992

Item	1992
*======================================	Dollar per
	cut gain 1.
Gross value of production:	0.04
Market hogs	0.94
Feeder pigs	64.88
Cull stock	5.67
Breeding stock	0.12
Inventory change	-0.14
Other income 2/	0.00
Total, gross value of production	71.47
Economic (full ownership) costs:	59.35
Variable cash expenses	
General farm overhead	2.59
Taxes and insurance	1.61
Capital replacement	20.78
Operating capital	1.06
Other nonland capital	6.68
Land	0.47
Unnaid Labor	10.96
Total, economic (full-ownership) costs	103.50
Residual returns to management and risk	-32.03

^{1/} Cwt gain = (cwt sold - cwt purchased) + cwt invectange. 2/ Receipts from manure sales. 3/ Milk replacer, milk, milk by-products, antibiotics, and other medicated additives.

Table 64A--Farrow-to-feeder pig production cash costs and returns, South, 1992

	1992
=======================================	ollars per
	owt gain 1/
Gross value of production:	
Market hogs	0.74
Feeder pigs	60.44
Cull stock	5.68
Breeding stock	0.09
Inventory change	12.04
Other income 2/	0.00
Total, gross value of production	78.99
Cash expenses:	
Feed-	6.96
Grain	5.15
Protein sources	26.15
Complete mixes	0.21
Other feed items 3/	38.47
Total feed costs	30.41
Other	0.01
Feeder pigs	2.06
Veterinary and medicine	0.05
Bedding and litter	3.97
Marketing Custom services and supplies	2.01
Fuel, lube, and electricity	4.75
	2.08
Repairs Hired labor	8.95
Total, variable cash expenses	62.35
General farm overhead	2.35
Taxes and insurance	1.92
Interest	5.16
Total, fixed cash expenses	9.43
Total, cash expenses	71.78
Gross value of production less cash expenses	7.21

Table 64B--Farrow-to-feeder pig production economic costs and returns, South, 1992

CITCIIO 10101010101010101010101010101010101010	========
Item	1992
	========
	Dollar per
	cwt gain 1/
Gross value of production:	
Market hogs	0.74
Feeder pigs	60-44
Cull stock	5.68
Breeding stock	0.09
Inventory change	12.04
Other income 2/	
Total, gross value of production	78.99
Economic (full ownership) costs:	
Variable cash expenses	62.35
General farm overhead	2.35
Taxes and insurance	1.92
Capital replacement	22.86
Operating capital	1.11
Other nonland capital	7.56
Land	0.54
	11.01
Unpaid labor Total, economic (full-ownership) costs	109.70
Residual returns to management and risk	-30.71
	est inventor

^{1/} Cwt gain = (cwt sold - cwt purchased) + cwt inventory
change. 2/ Receipts from manure sales.
3/ Milk replacer, milk, milk by-products,
antibiotics, and other medicated additives.

Table 65A--U.S. Feeder pig-to-finish production cash costs and returns, 1992

and returns, 1992	
I tem	1992
	========
	Dollars per
	cwt gain 1/
Gross value of production:	
Market hogs	52.80
Feeder pigs	0.05
Cull stock	0.02
Breeding stock	0.01
Inventory change	0.10
Other income 2/	52.98
Total, gross value of production	52.90
Cash expenses:	
Feed	9.39
Grain	5.52
Protein sources	7.20
Complete mixes	0.38
Other feed items 3/ Total feed costs	22.49
	66.77
Other	18.05
Feeder pigs Veterinary and medicine	0.71
Bedding and litter	0.11
Marketing	0.39
Custom services and supplies	0.34
Fuel, lube, and electricity	0.82
Repairs	0.83
Hired labor	0.98
Total, variable cash expenses	44.72
Total, variable each expenses	
General farm overhead	1.23
Taxes and insurance	0.80
Interest	2.81
Total, fixed cash expenses	4.84
Total, cash expenses	49.56
Gross value of production less cash expense	s 3.42

Table 65B--U.S. Feeder pig-to-finish production economic costs and returns, 1992

	========
Item	1992
	========
	Dollar per
	cwt gain 1/
	oat gam.
Gross value of production:	52.80
Market hogs	0.05
Feeder pigs	0.03
Cull stock	0.01
Breeding stock	0.10
Inventory change	0.10
Other income 2/	
Total, gross value of production	52.98
Economic (full ownership) costs:	
Variable cash expenses	44.72
General farm overhead	1.23
Taxes and insurance	0.80
Capital replacement	6.75
Capital reptacement	0.80
Operating capital	2.50
Other nonland capital	0.11
Land	4.54
Unpaid labor	61.45
Total, economic (full-ownership) costs	
and rick	-8.47
Residual returns to management and risk	=========
1/ Cwt gain = (cwt sold - cwt purchased) +	cales
inventory change 2/ Receipts from manufic	Sales.
TARELLA DE MILLE MILLE DV DI OUGO OF	
antibiotics, and other medicated additives.	

Table 66A--Feeder pig-to-finish production cash costs and returns, North, 1992

and returns, North, 1992	
I tem	1992
1 (40)	========
	Dollars per
	cwt gain 1/
a value of production:	
Gross value of production:	53.16
Market hogs	0.05
Feeder pigs	0.01
Cull stock	0.01
Breeding stock	0.04
Inventory change	0.00
Other income 2/	53.27
Total, gross value of production	
Cash expenses:	
Feed	10.43
Grain	6.23
Protein sources	5.75
Complete mixes	0.46
Other feed items 3/	22.87
Total feed costs	22.01
Other	18.33
Feeder pigs	0.83
Veterinary and medicine	0.14
Bedding and litter	0.39
Marketing	0.32
Custom services and supplies	0.80
Fuel, lube, and electricity	0.88
Repairs	1.11
Hired labor	45.67
Total, variable cash expenses	. 43.01
General farm overhead	1.34
Taxes and insurance	0.82
Interest	3.08
Total, fixed cash expenses	5.24
Total, cash expenses	50.91
Gross value of production less cash expense	s 2.36
=======================================	=========

Table 66B--Feeder pig-to-finish production economic costs and returns, North, 1992

Item	1992
	========
	Dollar per
	cwt gain 1/
Gross value of production:	F7 4/
Market hogs	53.16
Feeder pigs	0.05
Cull stock	0.01
Breeding stock	0.01
Inventory change	0.04
Other income 2/	0.00
Total, gross value of production	53.27
Economic (full ownership) costs:	/F /7
Variable cash expenses	45.67
General farm overhead	1.34
Taxes and insurance	0.82
Capital replacement	6.85
Operating capital	0.82
Other nonland capital	2.41
Land	0.13
Unpaid labor	4.96
Total, economic (full-ownership) costs	63.00
Residual returns to management and risk	-9.73
	cut inventor
1/ Cwt gain = (cwt sold - cwt purchased) + change. 2/ Receipts from manure sales. 3/	Milk
replacer, milk, milk by-products, antibioti	cs, and
other medicated additives.	
Ottici ilicated ed datettos	

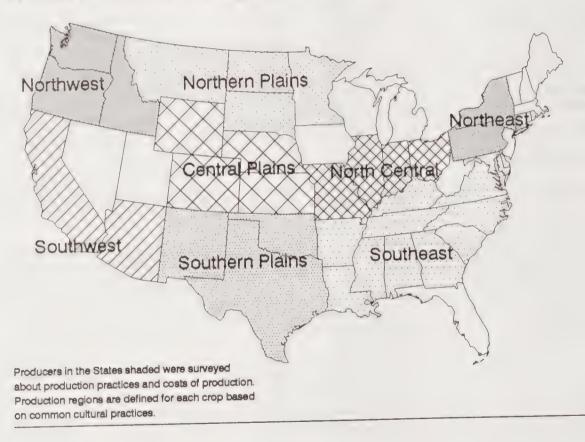
Table 67A--Feeder pig-to-finish production cash costs and returns. South. 1992

returns, South, 1992	2011 00010 0110
Item	1992
	========
	Dollars per
	cwt gain 1/
Gross value of production:	
Market hogs	51.55
Feeder pigs	0.05
Cull stock	0.04
Breeding stock	0.00
Inventory change	0.31 0.00
Other income 2/	51.95
Total, gross value of production	21.92
Cash expenses: Feed	
Grain	5.76
Protein sources	3.04
Complete mixes	12.32
Other feed items 3/	0.08
Total feed costs	21.20
Other	
Feeder pigs	17.07
Veterinary and medicine	0.31
Bedding and litter	0.01
Marketing	0.40
Custom services and supplies	0.42
Fuel, lube, and electricity	0.92
Repairs	0.64
Hired labor	0.55
Total, variable cash expenses	41.52
	0.86
General farm overhead	0.72
Taxes and insurance	1.86
Interest	3.44
Total, fixed cash expenses	3.77
Total, cash expenses	44.96
	s 6.99
Gross value of production less cash expense	5 0.77

Table 67B--Feeder pig-to-finish production economic costs and returns, South, 1992

Item	1992
	Dollar per cwt gain 1/
Gross value of production: Market hogs Feeder pigs Cull stock Breeding stock Inventory change Other income 2/ Total, gross value of production	51.55 0.05 0.04 0.00 0.31 0.00 51.95
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land Unpaid labor Total, economic (full-ownership) costs	41.52 0.86 0.72 6.38 0.74 2.83 0.06 3.04 56.15
Residual returns to management and risk	cwt inventor Milk

Wheat Production Regions, 1980-88



I tem	1980	1981	1982	1983	1984	1985	1986	1987	1988
	11 11 11 11 11 11 11					ed acre			
Gross value of production (excluding direct Government payments): Wheat Wheat straw 1/ Total, gross value of production	112.41 4.07 116.48	114.35 4.61 118.96	110.32 4.37 114.69	128.52 4.45 132.97	113.97 4.48 118.45	93.52 2.48 96.00	66.06 2.06 68.12	76.21 2.18 78.39	95.89 3.78 99.67
Seed Fertilizer, lime, and gypsum Fertilizer, lime, and gypsum Chemicals Custom operations 2/ Fuel, lube, and electricity Repairs	2.2.2.01 2.2.2.2.5.5 2.2.2.2.8	72.19	56.65 3.16 5.18 7.11 7.18 7.18	18.36 11.06 11.06 12.27	18.37 3.19 5.04 9.54 3.15	7.59 4.26 4.17 9.93 6.56 2.43	7.29 4.12 6.74 6.77 2.54	13.62 7.72 7.72 7.75 7.75 7.75 7.75 7.75 7.7	44.882.44.05.44.46.44.46.44.46.44.46.44.46.46.46.46.
Hired tabor Other variable cash expenses 3/ Total, variable cash expenses	0.49	55.29	56.03	56.77	55.01	51.10	0.22	0.20	44.24
General farm overhead Taxes and insurance Interest Total. fixed cash expenses	7.08 7.33 14.58 28.99	7.39 7.39 19.81 34.59	7.11 6.90 18.45 32.46	8.05 7.69 21.86 37.60	8.62 7.86 22.98 39.46	5.10 7.44 12.69 25.23	7.92 7.92 9.08 21.69	8.11 10.09 24.21	6.89 8.19 9.57 24.65
Total, cash expenses	75.75	89.88	88.49	94.37	27-76	76.33	67.36	88.69	68.89
Gross value of production less cash expenses	40.73	29.08	26.20	38.60	23.98	19.67	0.76	8.51	30.78
Harvest-period price (dollars/bu.) Yield (bu./planted acre)	3.76 29.87	3.63	32.64	3.48	3.37	2.98	2.29	31.87	3.50
Armendix table 18U.S. wheat production econor	mic cost	n economic costs and returns,							11 11 11 11 11 11
I tem	1980	1981	1982	1983	1984	1985	1986	1987	1988
				Dollars	8	ted acre			
Gross value of production (excluding direct Government payments):	112.41	114.35	110.32	128.52	113.97	93.52	66.06	76.21	95.89

Îtem	1980	1981	1982	1983	1984	1985	1986	198/	1900
				Dollars	per planted	ed acre			
Gross value of production (excluding direct Government payments): Wheat Wheat straw Total, gross value of production	112.41 4.07 116.48	114.35 4.61 118.96	110.32	128.52 4.45 132.97	113.97 4.48 118.45	93.52 2.48 96.00	66.06 2.06 68.12	76.21 2.18 78.39	95.89 3.78 99.67
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Land Unpaid labor	76.76 7.08 7.33 7.33 18.15 2.83 3.64 3.06	55.29 7.39 19.30 3.91 29.44 29.44	56.03 7.11 19.41 3.09 3.24 29.75 6.72 6.72	26.77 8.05 21.02 2.51 3.19 34.41	55.01 8.62 7.62 2.72 3.84 29.78 29.78	51.10 7.44 19.63 2.67 30.81 55.74 57.74	45.67 7.92 19.90 1.38 3.66 23.30 5.66	45.67 6.11 20.33 1.46 3.69 24.87 5.63	44.24 6.89 8.19 20.67 1.78 4.33 31.38 31.38
Total, economic (full ownership) costs	-5.77		-17.56	-7.81	-16.86	-29.26	-44.06	-37.38	-23.58
Harvest-period price (dollars/bu.)	3.76	3.63	3.38	3.48	33.79	2.98	2.29	2.39	3.50

	2006			9 0 0	1	1		10 10 10 10 10 10 10 10 10	
	11 11 11 11 11 11 11	61 11 11 11 11 11 11	11 11 10 10 10 11 11 11	Dollars p	er plant	ed acre			
Gross value of production (excluding direct Government payments): Wheat Wheat straw Total, gross value of production	151.68 42.51 194.19	122.08 66.56 188.64	116.91 61.26 178.17	133.15 59.31 192.46	129.91 72.14 202.05	146.17 83.88 230.05	117.68 82.74 200.42	104.50 95.48 199.98	184.32 101.13 285.45
Cash expenses: Seed Fertilizer, lime, and gypsum		13.98 44.25 0.12	12.52 41.40 0.86	12.13	15.03 31.53 0.33	18.78	15.20	18.03 37.13 6.27	14.72 42.80 6.14 5.10
Custom operations 1/ Custom operations 1/ Foreign Lube, and electricity	5.28 12.43 7.81	14.47	15.47				7.75	7.38	8.03
Hired labor Other variable cash expenses 2/		5.31					0.00	0.00	0.00
General farm overhead Taxes and insurance Interest		10.59	6.64 18.37 18.68 43.69	12.40 19.17 15.57 47.14	12.19 21.05 18.04 51.28	17.62 20.81 29.51 67.94	29.92 22.07 25.55 77.54	25.92 22.70 29.92 55.84	33.97 24.12 24.44 58.41
Total, fixed cash expenses	145.87			129.66	135.96	164.36	162.21	141.19	148.56
lotal, cash expenses	0	51.94		.80	60.99	65.	38	58.79	136.89
Harvest-period price (dollars/bu.)	3.97	3.28	35.91	3.3	3.56	2.96	2.69	N 00 1	3.56
ii ie	costs and	_	타	1980-8		9	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 10 11 11 11 11	01 11 10 01 11 10 10 10
Appendix table to mich. Prometer and the mich.	11	ii	1982	1983	1984	1985	1986	1987	- 1
		11 11 11 11	11 12 11 11 11 11 11	Dollars	per plan	planted acre		 	
Gross value of production (excluding direct Government payments): Wheat Wheat straw Total, gross value of production	151.68 42.51 194.19	122.08 66.56 188.64	116.91 61.26 178.17	133.15 59.31 192.46	129.91 72.14 202.05	146.17 83.88 230.05	117.68 82.74 200.42	104.50 95.48 199.98	184.32 101.13 285.45
Economic (full ownership) costs: Variable cash expenses General farm overhead		MUNK		244		400	84.67 29.92 22.07	85.35 25.92 22.70	90.15 33.97 24.12
Taxes and insurance Capital replacement Operating capital		1-4-		2.00	122	447	30.77	D M IO	
Other nonland capital Land Unpaid labor	4.04 17.08 10.94 175.17	3.98 17.25 11.79	19.82	20.70 13.21 190.13	22.88 15.73 203.17	33.57 8.26 218.32	26.94 8.86 212.40	, , , ,	
lotal, economic costs			.16	2.	-1.12	11.73	-11.98	-13.	45.
Harvest-Deriod price (dollars/bu.)	3.97	3.28	3.26	3.38	3.5	25.9	43	41	

	1980	1981	1982	1983	198	1985	1986	1987	98
	 		1 1 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Dollars	per plante	ed acre			
Gross value of production (excluding direct Government payments): Wheat Wheat straw Total, gross value of production	124.90 18.36 143.26	135.87 3.18 139.05	105.33 1.52 106.85	105.57 1.60 107.17	117.61 1.48 119.09	79.45 1.83 81.28	67.63 1.37 69.00	79.56	143.09
Cash expenses: Seed Fertilizer, lime, and gypsum Chemicals Custom operations 1/ Fuel, lube, and electricity Repairs Hired labor	33.48 33.48 11.00 11.00 3.62 252	39.23 2.57 7.34 11.04 6.02	10.16 35.7 2.75 7.34 10.14 6.02	34.65 34.65 34.65 34.65 34.65 34.65	11.20 36.24 2.38 7.43 6.45	33.62 1.95 2.24 2.24 2.30 2.30 3.30 3.30 3.30 3.30 3.30 3.30	29.78 2.33 3.33 2.69 2.69	27.77 2.77 3.11 5.83 5.83 110 100	33.66 33.66 1.25 5.83 6.65 89 89
Total, variable cash expenses		81.31	75.94	0 0	75.57				
General farm overhead Taxes and insurance Interest Total, fixed cash expenses	7.42 4.09 17.33 28.84	6.66 3.71 19.46 29.83	4.89 3.82 17.24 25.95	4.98 4.09 13.74 22.81	5.10 4.38 14.5 23.98	3.39 7.32 8.83 19.54	7.30 7.55 18.86	4.63 7.56 7.33 19.52	8.08 7.97 9.94 25.99
Total, cash expenses	99.81	111.14	101.89	96.52	99.55	87.69	77.24	76.60	92.03
Gross value of production less cash expenses		~		10.65	5	9	-8.24	77.7	52.60
Harvest-period price (dollars/bu.) Yield (bu./planted acre)	33.33	39.40	34.09	32.38	3.23	2.97	27.33	32.19	3.36
Appendix table 38Wheat production economic	costs and	returns,	Southeast,	t, 1980-88					1 1 1 1
I tem	1980	1981	1982	19		1985	198	1987	1988
	0,000	135.87 3.18 139.05	105.33 1.52 106.85	lars .57 .60 .17	IΩ	170	67.63 1.37 69.00		143.09 1.54 144.63
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land Unpaid labor Total, economic costs	70.97 7.42 4.09 17.11 4.08 3.37 23.74 8.03	81.31 6.66 3.71 16.81 5.93 2.75 24.94 149.05	75.94 4.89 3.82 17.53 4.42 2.67 21.66 7.10 137.52	73.71 4.98 4.09 18.47 3.38 2.53 21.18 6.74 135.08	75.57 5.10 4.38 18.39 3.94 22.81 140.12	68.16 3.39 3.10 23.10 25.13 129.51	58.38 7.30 18.24 1.90 3.07 20.54 20.54	57.08 4.63 4.63 18.97 2.05 3.16 20.13 6.02 119.60	66.04 20.76 20.76 27.93 27.93 27.53 143.53
Residual returns to management and risk	4.45	-10.00	-30.67	-27.91	-21.03	-48.23	-50.21	-38.56	
Harvest-period price (dollars/bu.)	3.75	3.45	3.09	3.26	3.23	2.97	2.47	2.47	3.36

Itelli	98	98	1982	1983	4	1985	1986	1987	1988
Gross value of broduction			II	Dollars	er plant	ac acr			
(excluding direct Government payments): Wheat Wheat straw Total, gross value of production	169.84 16.20 186.04	145.71 17.58 163.29	112.96 12.97 125.93	142.00 13.36 155.36	131.91 13.24 145.15	127.95	69.28 13.52 82.80	113.55	160.21 28.59 188.80
Cash expenses: Seed Fertilizer, lime, and gypsum Chemicals Custom operations 1/ Fuel, lube, and electricity Repairs Hired labor Total, variable cash expenses	10.72 34.96 0.34 10.38 10.38 3.62 70.55	10.69 37.45 0.37 3.82 11.30 6.86 74.47	9.31 32.14 0.43 0.67 5.64 5.64 8.08	39.09 0.44 0.47 10.11 10.11 73.57	10.91 42.97 0.41 6.55 88.07 5.88 78.33	26.97 26.97 1.36 1.79 8.49 59.63	11.86 25.4 1.47 1.79 4.57 2.97 52.91	10.40 24.09 1.46 1.85 5.54 5.54 53.14	10.59 28.87 1.39 1.95 5.93 5.93 5.93 5.93
General farm overhead Taxes and insurance Interest Total, fixed cash expenses	8.71 11.82 18.71 39.24	7.58 10.97 20.82 39.37	5.56 11.88 16.45 33.89	7.57 13.14 25.15 45.86	7.48 12.58 25.13 45.19	5.36 11.70 17.09 34.15	3.96 12.07 9.83 25.86	7.78 12.74 14.31 34.83	11.33 12.49 18.65 42.47
Total, cash expenses	109.79	113.84	101.97	121.43	123.50	93.78	78.77	87.97	101.19
Gross value of production less cash expenses	6.2	4.6	3.9	3.9	21.6	0	4.03	42.33	87.61
Harvest-period price (dollars/bu.) Yield (bu./planted acre)	3.80	3.42	35.97	43.30	3.26	2.89	30.29	2.3	3.4
nom	sts and	returns,	North C	tral, 19	0 1	1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1		11 11 11 11 11 11	15 81 11 11 11 11 11
13 11 11	1980	1	1982	1983	1984	198	1986	1987	1988
Gross value of production (excluding direct Government payments): Wheat Wheat straw	169.84	145.71	112.96	142.00 13.36	131.91	ted acre 127.95 16.65	7,00	13.5	288.55 88.55
Economic (full ownership) costs: Variable cash expenses Genral farm overhead		420	∞ v. ←	4 4 8	8 0 0	59.63	52.91	53.14	A 8 8
Capital replacement Operating capital Other nonland capital	17.69	18.53 5.52 3.45 37.58	20.27	35.60 3.69 35.91	22.12 4.21 4.43 32.21	22.63 3.12 4.24 50.43	19.37 2.12 3.61 29.26	21.96 2.29 4.10	24.14 2.22 63.65 63.65
Unpaid labor Total, economic costs	4 0 0		8 6	0 0		6.95	6.62	153.77	0 0
Residual returns to management and risk	3.7	9.	-25.35	-14.65	-24.03	-19.47	n 41	-23.47	2.36
Harvest-period price (dollars/bu.)	3.80	3.42	1	Sin	40.3	2.89	30.29	Ni.	3.42

		1705	1985	1984	1985	1900	190/	1300
73.40			S	per planted acre	ed acre			
	05.23 1 0.00 105.23 1	0.89 0.89 110.61	108.35 0.91 109.26	118.11	86.36 1.95 88.31	67.61 1.41 69.02	75.46	47.99 2.77 50.76
	7.86 9.70 3.65 1.50	7.33 5.39 2.13	7.10 12.38 5.81 2.20	7.50	6.86 11.97 4.40 3.28	6.62 10.30 4.39 3.50	5.82 9.58 16.29 10.53	6.19 10.87 4.35 2.25 4.57
Fuel (lube, and electricity 8.82 8.84 Repairs 1.23 1.15 1.15 1.15 1.15 1.15 1.15 1.15 1.1	10.76 8.49 2.64 0.01	6.69 6.69 74.0 74.0 74.0 74.0 74.0 74.0 74.0 74.0	7.18 2.65 0.44 46.62	7.29 2.77 0.44 44.58	40.73	5.74 2.00 0.00 36.68	5.83 1.93 0.00 36.16	5.27 1.77 0.00 35.27
	7.39 6.95 21.08	6.99	7.36 20.59 35.17	11.53 8.03 32.81 52.37	4.27 6.63 12.11 23.01	4.22 7.26 8.79 20.27	6.24 7.43 11.06 24.73	3.83 6.78 5.82 16.43
nses	80.03	77.57	81.79	96.95	63.74	56.95	60.89	51.70
lotal, cash expenses 15.19	25.20	33.04	27.47	22.06	24.57	12.07	16.12	-0.94
 	3.69	3.46	3.77	33.36	3.03	29.69	2.45	3.82

Annendix table 58Wheat production economic	costs and	retuins,	מסו כווכו						
	1980	1981	1982	1983	1984	1985	1986	1987	1988
	14 11 11 11 11 11 11 11	ii 11 11 11 11 11 11 11		Dollars	per planted	ed acre			
Gross value of production (excluding direct Government payments): Wheat Wheat straw Total, gross value of production	73.40	105.23	109.72 0.89 110.61	108.35 0.91 109.26	118.11	86.36 1.95 88.31	67.61 1.41 69.02	75.46	47.99 2.77 50.76
Economic (full ownership) costs: Variable cash expenses General farm overhead	38.16	44.61 7.39 6.95	44.23	46.62 7.36 7.22	44.58 11.53 8.03	40.73	36.68	36.16	35.27 3.83 6.78
Taxes and insurance Capital replacement Operating capital	17.09	20.95	20.29	21.59	1.37	3.70	3.96	3.95	7.044
Uther honland capitat	26.89 4.95 103.03	34.61 5.87 126.31	34.88 5.43 123.56	34.07 5.90 127.38	35.59 6.14 134.02	30.98 4.02 110.98	4.44	108.28	m &
Residual returns to management and risk	-29.63	-21.08	-12.95	-18.12	-15.01	-22.67	-38.13	-31.27	-48.55
Harvest-period price (dollars/bu.)	3.97	3.69	3.46	3.77	33.36	3.03	29.69	2.45	3.82
		11111111							

I tem		00 1	1982	- 1		1985	1986	1987	1988
	11 14 14 14 14 14 11 11 11	11 11 13 10 11 11			per pla	acr	ì		
Gross value of production (excluding direct Government payments): Wheat Wheat straw Total, gross value of production	111.36	88.50 1.24 89.74	104.95 2.12 107.07	130.40	111.90 2.19 114.09	98.30 0.58 98.88	63.54	76.85 0.59 77.44	103.71
Cash expenses: Seed Fertilizer, lime, and gypsum Chemicals Custom operations 1/ Fuel lube, and electricity Repairs Hired labor Other variable cash expenses Total variable cash expenses	4.11 0.01 0.03 0.03 0.01 36.29	4.28 9.38 11.38 7.55 2.66 39.75	4.54 10.79 1.09 6.6 10.72 7.02 2.89 43.90	10.77 10.77 1.15 6.96 7.58 3.05 44.05	7.15 7.17 7.17 7.17 7.17 7.17 8.19 4.1.88	6.67 11.11 0.97 4.67 7.51 6.36 0.00 39.57	6.55 11.27 1.07 4.83 6.10 2.58 0.00 39.00	11.77 11.67 6.32 5.32 7.00 37.62	12.27 12.27 1.06 1.06 1.06 1.06 1.06 1.06 1.06 1.06
General farm overhead Taxes and insurance Interest Total, fixed cash expenses	7.18 7.58 14.04 28.80	5.84 8.04 15.86 29.74	6.19 7.53 18.41 32.13	8.79 8.11 25.12 42.02	9-04 8-64 24-71 42-39	5.31 8.57 13.25 27.13	3.69	6.10 9.39 10.66 26.15	7.52 9.96 10.73 28.21
Total, cash expenses	62.09	65.69	76.03	86.07	84.27	04.39	59.33	63.77	20.79
Gross value of production less cash expenses	7.3	N	1.0	77.97	~ 1	32.18	7 -	13.67	37.16
Harvest-period price (dollars/bu.) Yield (bu./planted acre)	3.50	3.67	3.37	38.73	34.02	2.81	29.55	34.06	3.3
nomic	and	returns,	Central F	Plains, 1	980-88	11 11 11 13 13 11 11	14 61 11 11 15 10 11 11	03 11 11 11 18 83 01 11	ik 64 61 11 11 18
I tem	1980	1981	1982	1983	1984	1985	1986	1987	1988
Gross value of production (excluding direct Government payments):	11 10.	88.50	104.95	ars 40	per plan	ted acre 98.30	63.54	76.85	7.5
Wheat straw Total, gross value of production	112.46	6 6	107.07	2.5	14	0	0 11	77.44	
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement	36.29 7.18 7.58 17.62 2.59	39.75 5.84 18.81 3.49	43.90 6.19 7.53 18.95 2.85	44.05 8.79 8.11 20.33	41.88 9.04 8.64 19.74 2.36	39.57 5.31 18.46 1.96	39.00 3.69 9.05 18.66	37.62 6.10 9.39 19.19	38.86 7.52 9.96 20.08
Other nonland capital Land Unpaid labor Total, economic costs	29.31 5.74 109.88	0 8 8 6		36.52 36.52 6.79 129.96					
		-16.42	0	2.55	-8.17	-7.72	-32.49	-24.02	99.6-
Harvest-period price (dollars/bu.)	3.50	3.67	3.37	IM	120	2.8	£.12	2.2	3.31

	1980	1981	1982	1983	-	4- I	1986	1987	1988
		16 11 12 10 11 11 11	14 16 14 11 11 11 16 16	 Dollars p	er plant	ed acre			
Gross value of production (excluding direct Government payments): Wheat Wheat straw 1/ Total, gross value of production	87.23 5.42 92.65	86.35 9.62 95.97	83.93 9.51 93.44	102.60 9.51 112.11	80.04	65.97 0.10 66.07	39.45 0.09 39.54	38.17 0.12 38.29	65.37 0.11 65.48
Cash expenses: Seed Fertilizer, lime, and gypsum Chemicals Custom operations 2/ Fuel, lube, and electricity Repairs Hired labor Other variable cash expenses 3/	5.39 12.45 1.75 12.88 7.38 3.10 6.07	5.54 15.58 1.74 1.74 1.74 1.97 2.77 2.77	5.30 15.86 14.75 77.27 7.27 2.92 0.01 55.18	12.20 12.20 1.94 8.43 14.30 7.92 3.01 52.84	15.52 1.98 1.98 1.98 12.62 3.02 3.02 52.43	13.44 4.29 14.53 14.53 6.45 2.51 52.86	15.73 10.71 10.71 5.90 2.49 47.17	10.05 10.05 10.08 10.09 10.05	11.06 5.44 7.11.33 6.30 6.30 7.00 7.00
General farm overhead Taxes and insurance Interest fixed cash expenses	5.95 4.33 10.35 20.63	5.63 3.97 13.63 23.23	4.91 3.85 11.82 20.58	4.80 4.08 11.58 20.46	5.00 4.16 10.84 20.00	3.38 4.85 6.49 14.72	3.58 4.92 14.41	2.55 5.03 4.31 11.89	
Total, cash expenses	67.60	78.14	75.76	73.30	72.43	67.57	61.58	56.92	8 0
Gross value of production less cash expenses ==================================	3.56	0 11 0	1 M	3.32	0 0	22.41	2.28	2.32	3.35
Appendix table 78Wheat production economic	costs and	returns,	Southern 1982	Plains,	1980-88 ======== 1984	1985	11 00 1	1987	198
	1980	1301	1707	Dollars	Per	ed acre	11 11 11 11 11 11 11	H H H H H H H	11 11 11 11 11 11 11
Gross value of production (excluding direct Government payments): Wheat Wheat straw and grazing 1/ Total, gross value of production	87.23 5.42 92.65	86.35 9.62 95.97	83.93 9.51 93.44	102.60	80.04 9.35 89.39	65.97 0.10 66.07	39.45 0.09 39.54	38.17 0.12 38.29	65.37 0.11 65.48
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Land Unpaid labor	46.97 76.97 76.97 16.44 19.65 19.65 106.70	54.91 15.63 15.63 2.92 2.78 2.1.68 14.29	55.18 4.91 16.33 16.33 2.14 20.58 6.48 112.96	52.84 4.80 4.08 17.87 2.34 2.34 25.28 6.70 116.40	52.43 5.00 4.16 16.14 2.61 2.88 19.82 6.71	52.86 4.858 17.58 2.50 22.03 112.04	47.17 3.58 4.92 17.30 1.63 3.05 13.85 97.04	45.03 2.55 17.03 113.63 93.64	47.00 4.12 5.16 18.14 2.05 3.72 21.33 5.82 107.34
posidual returns to management and risk	-14.05		-19.52	-4.29	-20.36	-45.97	-57.50	-55.35	8 !!
11	3.56 24.51	3.72	3.45	30.92	3.36	25	0 0 11	16.46	3.35

		104	140	1705	+02	1965	1700	- O K - III III III III III III III III III	
	91 91 91 91 91 91 91	14 14 16 16 16 11 11 11 16	13 11 11 11 12 13 14 14	Dollars	بد ا	acr			
Gross value of production (excluding direct Government payments) Wheat Wheat straw Total, gross value of production	194.77	212.09	192.05	231.23 2.32 233.55	187.59 1.97 189.56	146.65 0.94 147.59	122.12 0.89 123.01	152.33 0.82 153.15	226.99 1.08 228.07
Cash expenses: Seed Fertilizer, lime, and gypsum		0.0		6.61 27.4 10.54	0 0 1	0 0 0		8.29 19.2 10.18	8.35 19.66 10.29
Chemicals Custom operations 1/ Fuel, lube, and electricity				13.91	MNA	040		2.80 13.10 10.90	0 0 0
Repairs Hired labor Other variable cash expenses Total, variable cash expenses	3.17	3.34	4.16 2.07 78.32	4.58 2.08 81.25	1400	MILE	3.43	3.78	
General farm overhead Taxes and insurance Interest Total fixed cash expenses	12.74 11.64 31.20 55.58	14.59 12.50 35.95 63.04	19.44 10.43 33.36 63.23	14.80 11.30 34.09 60.19	14.67 12.93 31.90 59.50	11.02 10.12 25.48 46.62	10.77 10.76 20.57 42.10	13.31 11.30 19.22 43.83	17.38 11.28 21.59 50.25
Total cash expenses	- 4	132.15	141,55	141.44	137.64	121.94	111.76	113.98	121.51
Gross value of production less cash expenses			2	Τ.	0,	~	11.25	- 1	106.56
Harvest-period price (dollars/bu.) Yield (bu./planted acre)	3.68	3.84	3.75	3.75	3.40 55.21	3.14	2.41	2.50	3.74 60.70
production economi	l o	returns,	0			1			11
THE SERVICE SERVICES OF THE SE	1980	1981	1982	1983	1984	1985	986	1987	
	10 10 11 11 11 11 11 11	11 11 11 11 11 11 11	55 50 51 51 51 51 50 51 51	Dollars	per planted	ted acre			
Gross value of production (excluding direct Government payments) Wheat Wheat straw Total, gross value of production	194.77	212.09	192.05 2.43 194.48	231.23 2.32 233.55	187.59 1.97 189.56	146.65	122.12 0.89 123.01	152.33 0.82 153.15	226.99 1.08 228.07
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital	62.44 172.74 112.74 26.46 3.93	69.11 14.59 12.50 25.73 5.38 4.68	78.32 19.44 10.43 25.10 4.67 4.21	81.25 14.80 11.30 26.65 3.79	78.14 14.67 12.93 27.57 3.97 5.10	75.32 11.02 10.12 26.10 3.86	69.66 10.77 10.76 26.39 2.56 4.86	70.15 13.31 11.30 27.87 2.83 5.08	71.26 17.38 11.28 28.37 3.29 6.06
Land Unpaid tabor Total, economic costs	40.20 5.90 169.64			59.27 10.18 211.29	45.96 9.58 197.92		43.72 7.62 176.34	040	
Residual returns to management and risk	10	N	7	2	8.3	-43.24	-53.33	-36.45	8.89
Harvest-period price (dollars/bu.)	3.68	3.84	3.75	3.75	3.40	3.14	2.41	2.50	3.74

Item	1980	1981	1982	1983	1984	1985	1986	196/	1700
				Dollars	per planted	ed acre			
Gross value of production (excluding direct Government payments): Wheat Wheat straw Total, gross value of production	266.81 9.78 276.59	287.45 3.94 291.39	249.42 4.16 253.58	253.36 4.75 258.11	240.90	266.55 0.91 267.46	207.00	201.79	323.64 0.80 324.44
Cash expenses: Seed Fertilizer, lime, and gypsum	14.29	14.52	13.74	13.89	12.31	17.40 21.40	16.58	18.30	16.12 20.02 10.12
Chemicals Custom operations 1/	7.56 7.58 7.88 7.88	35.75	32.44	32.39	32.96	22.8	22.65	22.86	28.20
Fuel, lube, and electricity Repairs	11.11	13.05	12.66	13.50	14.56	8.11	9.33 8.40	8.70	8.98
Hired labor Other variable cash expenses	9.71	11.01	15.61	15.67	15.94	7.52	120.15	121.01	125.76
General farm overhead Taxes and insurance Interest	16.64 19.00 40.74 76.74	18.53 16.71 43.47	26.63 14.00 42.27 82.90	28.16 15.01 62.27 105.44	28.77 15.46 58.08 102.31	19.81 17.22 46.26 83.29	18.46 17.49 35.63 71.58	17.43 17.74 22.06 57.23	24.36 17.88 28.52 70.76
Total, fixed cash expenses	184.63			280.26	278.42	209.43	191.73	178.24	196.52
Gross value of production less cash expenses	91.96	40.86	-7.44	-22.15	-32.99	58.03	16.00	24.21	127.92
Harvest-period price (dollars/bu.)	3.86	3.97	3.67	3.87	3.47	3.38	2.85	2.76	4.06

Appendix table 98Wheat production economic	costs and	returns,	Southwest	1980-85		11 11 11 11 11	11 11 11 11 11 11 11		11 11 11 11 11 11 11 11 11 11 11 11 11
Transfer of the second	1980	1981	1982	1983	1984	1985	1986	1987	1988
	11 11 11 11 11 11 11 11 11	01 61 61 61 11 66 61 11	11 11 11 10 11 11 11 11	Dollars	per planted	ed acre			
Gross value of production (excluding direct Government payments): Wheat Wheat straw Total, gross value of production	266.81 9.78 276.59	287.45 3.94 291.39	249.42 4.16 253.58	253.36 4.75 258.11	240.90 4.53 245.43	266.55 0.91 267.46	207.00	201.79	323.64 0.80 324.44
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land Unpaid labor Total, economic costs Residual returns to management and risk	108.25 16.64 19.00 27.24 5.59 5.49 60.86 20.69 263.71 12.88	171.82 18.53 16.71 27.10 9.90 4.64 60.19 16.05 324.94	178.12 26.63 14.00 29.82 8.16 5.05 67.16 16.60 345.54	174.82 28.16 15.01 31.42 6.34 4.82 67.46 16.55 344.58	176.11 28.77 15.46 31.75 7.16 5.97 67.12 17.38 349.72	126.14 19.81 17.22 24.57 4.48 4.98 108.97 18.05 324.22	120.15 18.46 17.49 24.24 3.05 4.97 90.03 18.70 297.09	121.01 17.43 17.74 24.50 3.45 4.92 92.49 19.38 300.92	125.76 24.36 17.88 25.79 4.04 6.04 107.82 19.98 331.67
Harvest-period price (dollars/bu.) Yield (bu./planted acre)	3.86	3.97	3.67	3.87	69.50	78.74	72.72	72.99	79.77
1/ Includes cost of technical services. 2/	Includes	cost of pu	purchased irrigation	rrigation	water.				

## 100 Compares per bred con pollers per		982	1983	1984	1707	1700	2011	11 11 11 11 11	11 11 11 11 11 11 11
Value of production: 4,22, 7,48, 9, 74, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,		11 11 11 11 11 11 11 11		0	llars	bred co			
For service of production	Gross value of production: Steer calves Heifer calves		4M1	5.46	0 0 0	5.8		UN.80.	0.04
tements	Yearling steers Yearling heifers Other cattle Total, gross value of production	0 0 0 0	100	1.4		43.9 28.8 65.4		100	90-
4.66 6.20 9.39 7.65 5.39 7.65 7.09 7.00 4.40 5.83 1.70 11.20 9.39 7.65 5.09 7.00 4.40 5.25 5.00 7.00 6.20 6.20 7.00 6.20 7.00 6.20 6.20 7.00 6.20 7.00 6.20 7.00 6.20 7.00 6.20 7.00 6.20 7.00 6.20 7.00 6.20 7.00 6.20 7.00 6.20 7.00 6.20 7.00 6.20 7.00 6.20 7.00 6.20 7.00 6.20 7.00 6.20 7.00 6.20 7.00 6.20 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7	Cash expenses:					•			
2.40 17.26 18.13 18.09 19.09 1	Grain Grain Orinate	0 8	0.0			9500			
39.02 36.45 39.30 36.44 34.47 31.78 34.89 39.69 11.30 11.30 113.94 113.72 121.77 114.25 99.55 93.91 116.65 112.00 113.94 113.72 121.77 114.25 99.55 93.91 116.65 112.00 117.94 113.94 113.72 121.77 114.25 99.55 93.91 116.65 112.00 117.94 113.92 113.93 113.	Protein supplements Salt and minerals	10.	ໝໍ ດ່ ແ			OOW			
113.94 113.72 121.77 114.25 90.55 90.01 116.08 112.01 113.94 113.72 121.77 114.25 90.55 90.01 116.08 112.01 113.02 113.0 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.	Hay Pasture	-00	900			40			
5.91 6.11 6.31 6.38 6.60 6.72 6.91 7.75 7.70 4.00 1.85 1.86 1.86 1.86 1.86 1.86 1.86 1.86 1.86	Crop residue (purchased) Total feed costs	OM	00			010			
1.00	Other Veterinary and medicine		4-1	MO	M) a		Lα	0 (10
10.47 19.26 24.13 22.51 11.71 11.52 19.26 14.40 11.00 11.77 11.71 11.52 19.26 14.30 11.00 11.00 11.77 11.52 19.26 14.30 11.00 11.00 11.77 11.52 19.26 14.30 11.00 11.00 11.00 11.31 11.52 13.45 13.45 13.45 13.45 14.40 14.47 15.66 156.27 181.29 183.0 19.26 24.13 22.43 29.20 38.81 25.01 26.3 20.83 20.77 19.26 24.13 22.43 29.20 38.81 25.01 26.3 20.83 20.77 19.26 24.13 22.43 29.20 38.81 25.01 26.3 20.19 26.3 2	Livestock hauling	0 8	.0:	0-	501-	0 0	12		0,0
The sees of the control of the contr	Custom feed mixing Fine Lube electricity	·-:	9.0	4.0	401	·	20.7	Sich	4 K
181.43 181.15 186.54 179.67 100.00 190.27 191.25 24.13 22.43 29.20 38.81 25.01 26.30 45.52 44.30 24.30 24.30 42.04 49.88 177.50.05 29.04 49.88 177.50.05 29.04 49.88 177.50.05 26.04 25.04	Machinery and building repairs	100	350	3.7	رنون	-40	-4-0	JIN F	14.C
26.37	Total, variable cash expenses	-	1:1	6.3	9	o o	ò	-	
45.43 44.96 46.52 44.30 39.82 46.04 104.36 104.36 104.36 104.36 104.36 104.36 104.36 104.36 104.36 104.36 104.36 104.36 105.89 109.89 104.36 106.29 109.47.25 10.30 44.36 61.52 65.47 323.39 34.61 35.91 36.82 106.29 109.47.25 10.30 44.36 10.30 44.30 10.30 44.36 10.30 44.36 10.30 44.36 10.30 44.36 10.30 44.36 10.30 44.36 10.30 44.36 10.30 44.36 10.30 44.36 10.30 44.36 10.30 44.36 10.30 44.36 10.30 44.36 10.30 44.36 10.30 44.36 10.30 44.30 10.30 44.36 10.30 44.36 10.30 44.36 10.30 44.36 10.30 44.36 10.30 44.36 10.30 44.36 10.30 44.36 10.30 44.36 10.30 44.36 10.30 44.36 10.30 44.30 10.30 44.3	General farm overhead	0.0	4.2	4.1	NO.	200	9 0	0 8	9 0
267.20 268.80 276.53 265.44 253.74 266.16 286.23 287.4 cash expenses -11.71 -21.62 -17.75 -11.05 11.73 57.23 73.46 84.0 cash expenses -11.71 -21.62 -17.75 -11.05 11.73 57.23 73.46 84.0 cash countries and returns, 1982-89	Interest fixed cach expenses	N. N.	0.0	6.5	410	00	0 0	0 0	
T4.22 74.62 76.37 77.77 78.17 94.86 106.29 109. 42.19 24.19	Total cash persones	2	268.80			3.7	-	286.23	7.
1982 1983 1984 1985 1986 1987 1988 1989 1989 1982 1982 1983 1989 1989 1982 1983 1984 1985 1986 1987 1988 1989 1989 1982 1983 1984 1985 1986 1987 1988 1989 1989 1982 1983 1989 1989 1983 1989 1983 1989 1989	cash expense	11.7	21.	17.	1.	-		73.4	
Oduction economic costs and returns, 1982-89 1982		H H H H H H H H H H H H H H H H H H H	11 11 11 11 11		11	II	11 11 10 10 11 11 11	68 68 66 66	
74.22 74.62 76.37 77.71 78.17 94.86 106.29 109. 44.25 43.80 44.36 46.22 47.81 59.82 68.24 70.30 44.25 43.80 44.36 46.22 47.81 59.82 68.24 70.30 42.19 38.89 41.47 60.30 43.97 54.42 60.44 62.30 30.10 28.64 30.69 28.64 28.83 34.61 35.91 36.25 30.10 28.64 30.69 26.47 323.39 359.69 372. 181.43 181.15 186.34 179.67 160.66 156.27 181.29 183. 19.47 19.26 24.13 22.43 29.20 38.81 25.01 26.20 20.87 23.43 19.54 19.04 24.06 29.04 30.05 30.05 30.05 20.08 20.87 23.45 64.55 63.37 64.82 66.62 67.20 20.87 23.45 64.55 63.37 64.82 66.62 67.20 20.87 23.45 22.36 23.37 64.35 65.21 65.50 74.35 82.36 82.30 87.05 89. 71.71 74.68 76.73 78.27 88.36 56.21 65.50 74.35 82.36 448.12 470.09 448.04 443.45 468.26 500.57 517.	oducti	onomic	osts	eturns	1982-89				
74.22 74.62 76.37 77.71 78.17 94.86 106.29 109. 44.25 43.80 44.36 46.22 47.81 59.82 68.24 70. 42.19 38.89 41.47 40.30 43.97 54.42 60.44 62. 30.10 28.64 30.69 28.64 28.83 34.61 35.91 36.25 255.49 247.18 258.78 254.39 265.47 323.39 359.69 372. 181.43 181.15 186.34 179.67 160.66 156.27 181.29 183. 19.47 19.26 24.13 22.43 29.20 38.81 25.01 26.20 19.47 19.26 24.13 22.43 29.20 38.81 25.01 26.27 10.05 7.93 9.13 6.88 64.28 64.46 64.53 63.37 64.82 66.22 7.79 9.13 64.85 56.21 65.50 74.35 82.77 74.68 76.73 78.27 82.56 50.57 517. 20.87 23.43 19.54 19.54 64.53 63.37 64.82 66.22 77 29.93 31.55 29.67 23.45 19.54 443.45 468.26 500.57 517.		1982	1983	1984	1985	1986	1987	1988	1989
74.22 74.62 76.37 77.71 78.17 94.86 106.29 109. 44.25 43.80 44.36 46.22 47.81 59.82 68.24 70. 42.19 38.89 41.47 40.30 45.97 54.42 60.44 62. 30.10 28.64 30.69 26.69 79.68 88.81 93. 255.49 247.18 258.78 254.39 265.47 323.39 359.69 372. 181.43 181.15 186.34 179.67 160.66 156.27 181.29 183. 19.47 19.26 24.13 22.43 29.20 38.81 25.01 26.27 19.47 19.26 44.6 64.56 63.37 64.82 66.62 67. 62.86 62.8 64.46 64.66 64.84 64.8	1		11	11 11 11 11 11	====== ollars	er bred c	16 11 11 11	81 85 81 91 88 88 88 88 88	16 16 16 16 16 11 11 11 11
calves	Gross value of production: Steer calves		74.62		.71	78.		0 1	8 6
g heifers 34.61 35.91 36. 36.10 28.64 30.69 28.64 28.83 34.61 35.91 36. gross value of production 255.49 247.18 258.78 254.39 265.47 323.39 359.69 372. (full ownership) costs: (full ownership	Heifer calves Yearling steers		61.23				0 0 0	0 0	0 0
(full ownership) costs: (full ownership) cost	Yearling heifers Other cattle		28.64	0 0 1	0 0 0		0 9	8 0	
Full Owner Silly Costs: (181.43 181.15 186.34 179.67 160.66 156.27 181.29 183. (181.45 181.45 181.45 186.34 179.67 160.66 156.27 181.29 183. (183.45 19.26 24.13 22.43 29.20 38.81 25.01 26.38 19.54 19.04 24.06 29.04 30.05 3	Total, gross value of production		01.147	•		1			0
20.87 23.43 19.54 19.04 24.06 29.04 50.05 50.05 62.88 64.28 64.46 64.53 63.37 64.82 66.62 67.70 10.05 7.93 9.13 6.88 4.34 4.73 66.82 67.70 29.93 31.55 29.67 23.61 22.36 23.05 26.79 29.93 31.55 29.67 23.61 22.36 23.05 26.79 29.93 31.57 74.68 76.73 78.27 82.56 82.30 87.05 89.77 71.71 74.68 76.73 78.27 82.56 82.30 87.05 89.30 87.05 517.08 1443.45 468.26 500.57 517.	(full ownership) costs e cash expenses		0 0				0 0	0 0	183.09 26.33
10.05 7.93 9.13 26.38 4.34 4.79 29.93 31. 31.55 29.67 23.61 22.36 23.05 26.79 29.93 31. 92.86 83.72 66.15 54.86 56.21 65.50 74.35 82. 71.71 74.68 76.73 78.27 82.56 82.30 87.05 89. 490.82 484.12 470.09 448.04 443.45 468.26 500.57 517.	General Tarm Overmed Taxes and insurance Canital replacement		0 0				0 0	8 0	67.38
71.71 74.68 76.73 78.27 82.56 82.30 87.05 89. 490.82 484.12 470.09 448.04 443.45 468.26 500.57 517.	Operating capital		0 0				0 0	4 8 1	31.95
3.641- 88.041- 78.441- 80 771- 73 701- 12.110- 10.28 -145.6	Land Unpaid tabor								89.39
235 33 -236 94 -211.51 - 193.05 - 111.70 - 125.25	oir bac		,	-211.31	-193.65	-177.98	-144.87	-140.88	

Item	82	83		1985	1986	1987	1988	1909
	11 00 01 11 11 11 11	16 10 10 11 11 11 11 11	Ğ	18	bred c			
Gross value of production:	α		82.15					
Steer calves	7		60.05					
Yearling steers	۲.۷		47.05	0 8				
Yearling heiters Other cattle	35.14	35.64	39.77	34.46	36.70	329.09	364.90	379.06
Total, gross value of production	•		7177	e e	3	1		
Cash expenses:								10.09
				9.00	7.80	7.26	14.13	10.34
Silage Protein supplements								2.10
Sait and minerals					8 4	9 4		53.27
Pasture Pasture	16.59	16.14	111.91	95.33		ini		109.67
Other								
Veterinary and medicine								
Livestock nauting Marketing								
Custom feed mixing		19.24	16.04	15.37	12.02	12.29	3.8	13.85
Machinery and building repairs						ก้พ		
Hired Labor	155.12	158.87						
General tarm overnead Taxes and insurance	38.75	50.24	74.47	41.08	00°97 70°48	50.72	53.59	51.55
Interest Total fixed cash expenses	8 8			9 0	9			
September 1	259.15	278.53	285.15	261.56	250.93	265.86	302.29	301.41
	•		-12 //	8 21	18, 79	63.23	62.61	77.65
Gross value of production less cash expenses	.========		;		. 11	- 11	## H	11
ion ec	conomic costs		urns, North	h Central	-	.========	## 11 14 11 11 11 11	
I tem	188	83	15	1985	1986	1987	1988	1989
	11 11 11 11 11 11 11 11	11 11 11 11 11 11 11 11		ollars	er bred	MO		
Gross value of production: Steer calves	ω.				84.03	101.	114.24	116.73
Heifer calves	40.42 58.19	41.30	62.75	65.88	59.93	71.98		
Yearling heifers	4.				36.70	44		
Other cattle Total, gross value of production	-0;				269.72	329.		
Economic (full ownership) costs:		450 07			136	132.	174.	
Variable cash expenses		20.82			8	39	26.	
Taxes and insurance		50.24 72.88			75.	32.	74.	
Capital replacement Operating capital		6.95			2,3	30.	34.	
Other nonland capital	97.16	82.66	63.00	45.05	185	106	73.30	90.92
Unpaid Labor Total, economic costs		525.56			476	495	547.	
		250 76	220 4E	107 27	-206 86	-166.86	-182.81	-192.44

	1982	1985		707	0	196/	1,000	1707
			ŏ	ollars per	r bred co	3		
Gross value of production: Steer calves Heifer calves Yearling steers Yearling heifers Other cattle Total, gross value of production	82.30 45.27 30.99 19.31 34.65 212.52	82.89 45.29 32.39 21.17 33.52 215.26	85.79 46.13 31.20 19.40 35.01 217.53	88.49 48.76 32.11 20.81 32.81	93.80 51.62 31.10 20.70 32.14 229.36	113.58 64.43 37.33 25.67 28.73	127.55 73.59 41.52 28.53 40.21 311.40	133.17 74.94 42.73 29.50 41.35 321.69
Cash expenses: Feed Grain Silage Protein supplements Salt and minerals Hay Pasture Total feed costs	9.72 13.90 3.36 52.47 57.62	11.96 4.20 14.21 3.45 49.71 54.10	12.63 14.74 14.74 55.64 56.32	10.82 3.40 13.05 3.62 46.83 49.81	9.85 4.07 8.86 1.91 41.16 49.73	7.80 3.77 8.96 1.93 39.00 47.44	11.42 4.50 10.31 194 47.90 53.97	12.25 10.85 10.85 29.05 39.05 56.23
Other Veterinary and medicine Livestock hauling Marketing Custom feed mixing Fuel lube, electricity Machinery and building repairs Hired labor Total variable cash expenses	5.65 0.91 4.16 0.98 23.94 25.64 14.52 215.78	5.83 0.95 1.04 20.73 26.58 14.92 211.87	5.88 0.98 4.23 17.72 25.96 14.91	5.97 4.29 16.83 26.79 15.31	6.17 1.24 12.39 25.88 15.62 181.67	6.31 1.26 13.60 25.98 16.41	6.48 1.02 4.14 1.32 13.69 27.03 17.46	6.96 1.09 4.37 15.95 18.14 198.14
General farm overhead Taxes and insurance Interest fixed cash expenses	16.20 18.57 37.79 72.55	16.77 20.14 39.15 76.07	20.28 18.73 39.10 78.12	19.66 19.45 38.83 77.94	25.23 21.76 34.40 81.39	33.57 26.43 36.37 96.37	21.32 27.90 42.51 91.73	22.44 29.75 40.89 93.08
Total result by the property of the property o	288.33	287.94	295.17	276.74	263.06	273.70	292.91	292.76
f production less cash expens	-75.81	-72.68	-77.64	-53.76	-33.70	6.04	18.49	28.93
dix table 128Cow-calf production cas	osts an	_	South, 1	982-89	1	10 10 11 11 11 11	91 11 13 13 13 14 15 11	ii
01 11 11 11 11 11 11 11	1982	1983	1984	1985	1986	1987	1988	1989
	H H H H H H H	11 13 11 16 51 11 11 11	14 11 11 11 11 11 11 11	Dollars	ed c	MO		
Gross value of production: Steer calves Heifer calves Yearling steers Yearling heifers Other cattle Total, gross value of production	82.30 45.27 30.99 19.31 34.65	82.89 45.29 32.39 21.17 33.52	85.79 46.13 31.20 19.40 25.01 217.53	88.49 48.76 32.11 20.81 222.98	93.80 51.62 31.10 20.70 32.14 229.36	113.58 64.43 37.33 25.67 38.73 279.74	127.55 73.59 41.52 28.53 40.21 311.40	133.17 74.94 42.73 29.50 41.35 321.69
Economic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Land Unpaid labor Total	215.78 16.20 18.57 74.74 11.96 36.56 109.16 56.35	211.87 16.77 20.14 77.38 9.27 34.39 103.66 69.64	217.05 18.73 18.73 77.71 10.64 27.36 81.29 81.29 52.13	198.80 19.66 19.45 79.46 7.61 72.51 73.43 496.83	181.67 25.23 21.76 80.48 4.91 72.81 84.30 498.27	177.33 33.57 26.43 80.81 5.36 31.28 92.47 86.48 533.73	201.18 21.32 27.30 27.90 83.03 6.96 35.06 105.43 95.46 576.34	199.68 22.44 29.75 85.36 8.03 38.03 118.32 100.04 601.65
	1	70 404	77 404	377 95	-248 01	-253.99	76-796-	-279.96

Item	1904	1,00	1304		200		200	
	11 11 16 16 11 11	10 10 10 10 10 10 10 10 10	Q	ollars pe	r bred co	1		1
Gross value of production: Steer calves Heifer calves		8 8 1			72.70 50.86 78.88	88.13 63.52 94.39	98.68 72.38 105.03	103.30 73.87 109.49
Tearling steers Yearling heifers Other cattle Total, gross value of production	50.44 22.50 268.43	42.90 20.58 252.56	47.97 22.32 269.15	45.35 21.39 263.75	50.70 21.53 274.67			
Cash expenses: Feed			0					
Grain Sílage Protein supplements	24.83	27.10 27.10 1.68	27.79	23.21	23.78	23.98	8.15 27.89 1.96	29.79
Salt and minerals Hay Pasture			33.73					
Public grazing Crop residue Total feed costs			0.22					
Other								7.45
Marketing Custom feed mixing				+ON		MO		20.07 24.3
Machinery and building repairs Hired labor	18.67	11.85	180.03	20.38 11.43 181.58	19.72 12.61 158.71	19.78 12.82 154.40	20.86 13.08 175.95	21.86 14.17 178.37
General farm overhead	20.46		25.10	23.26	30.21	40.17	25.74	27.10
Interest Total, fixed cash expenses	47.73	45.94 83.90		W	90.74	J		103.35
Total cash expenses	257.98	257.60	566.49	263.57	249.42	261.54	278.54	281.72
Gross value of production less cash expenses	10.45	-5.04	2.66	0.18	25.22	73.22	94.07	105.64
11 10 11 12 13 14 14 14 14 14 14								
Apprndix table 138Cow-calf production economi	0	and retu	urns, Great	Pla	1982-89			31 11 11 11 11 11 11 11 11
1 1		83	- 11	1985	1986	1987	1988	1989
				2	per bred co	COM		
Gross value of production: Steer calves Heifer calves	69.90	71.51	72.30	75.73 50.24	72.70 50.88	88.13 63.52 94.39	98.68 72.38 105.03	103.30 73.87 109.49
Yearing steers Yearing heifers		8 6	47.97	21.35				72.81
Other cattle Total, gross value of production			269.15	263.75				387.36
Economic (full ownership) costs: Variable cash expenses		8 8	180.03				175.95	178.37
Taxes and insurance Capital replacement		0 0	12.98				59.55	61.57
Operating capital Other nonland capital			21.39	58.5	27.75	24.51	27.31	28.82
Land Unpaid labor Total, economic costs	65.08	67.11	68.41	0 9 5			74.75	79.92
								000

					200		2	=======
			Q	llars pe	bred co			
Gross value of production: Steer calves Heifer calves	1004	0.00	884	0.0W	1.59	0 0 0	95.24 60.73 108.06	99.49 61.80 111.32
Yearling Steels Yearling heifers Other cattle Total, gross value of production	52.61 33.85 280.01	31.51	50.46 33.41 276.07	47.18 31.74 262.87	51.49 32.17 277.27	63.90 38.77 338.05	750.	
Cash expenses:								
Georgia	0 0	100	20	oni	7.1	1.9	1.9	1.4
Protein supplements Salt and minerals	12.26	11.18	12.12	10.74	11.22	11.25	13.11	13.85
Hay	9 8	-4		in:	00	500	101	5001
Public grazing Total feed costs	0 0	04	- 00		5.3	6.6	5.0	4.5
Other Veterinary and medicine	40	20	OV			wo	7.55	8.13
Marketing	NUK	VR	000	J'M	7-	4.1	7:	35.6
Machinery and building repairs	18.72	19.82	19.31	20.14	20.49	20.61	21.60	40
Hired Labor Total, variable cash expenses	0.4	-0.	100	100	100	8	0	1.9
General farm overhead Taxes and insurance	21.34	20.08	13.74	13.31	30.50	40.57	26.49	27.88
Interest Total, fixed cash expenses	0,0	200	70	in	0.0	90	90.0	000
Total, cash expenses	265.85	259.36	267.00	257.90	255.05	267.64	284.60	288.75
Gross value of production less cash expenses	4.16	-1.69	4.07	4.97	22	70.41	07.06	98.39
mention and	Costs	0	West	1982-89	1			
	1982	83	1984	1985	1986	1987	11	11 00
		11	11 11 11 11 11	lars p	bred c		11	11 11 11 11 11 11
Gross value of production:	-	5	88	6.2	6.6	7	N	4.6
Sieel Calves Heifer Calves	0.	87	2007	0.0	1.5	min	10	8,5
Yearing heifers	52.61	45.54	50.46	47.18	51.49	63.90	70.71	73.15
Uther cattle Total, gross value of production	0.0	7.6	6.0	2.8	7.2	00	0	7.1
Economic (full ownership) costs: Variable cash expenses	41	7.0	100	175.64	← n	800	5.7	
General farm overhead Taxes and insurance	SUNG	5.40	-1-1	13.31	U 00 -	244	47.4	- 000
Capital replacement Operating capital	9.95	7.74	8.72	6.73	74.40	4.79	6.18	2.7.00
	ω-	1.1	Σω	35.47	0	200	50	00
Unpaid labor Total, economic costs	-0	w.	L.W.	80.75		0.0	1.0	NO
		-	417 20	415 77	470 07	20 00	20 70	-05 55

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